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TREATIS

In which

The Plagiarism (from in Dr. BRA

REMARKS on tions of the Eye, in the Difference in (plain'd and reconcil

ALS

WILLIAM PHECE

SUPPLEMENT

TO

Kennedy's Ophthalmographia;

OR,

TREATISE of the EYE;

In which is observ'd

The Plagiarism (from that Treatise) contain'd in Dr. Bracken's Farriery.

REMARKS on Dr. PORTERFIELD'S Motions of the Eye, in the Medical Essays, with the Difference in Opinions of Cataratis, explain'd and reconcil'd.

ALSO ON

WILLIAM CHESELDEN Esq; his Observations on the Eye, &c. in his Anatomy; and of the Improvements made in our Hospitals, &c.

ON

Dr. P. Shaw, in his Practice of Physick; Dr. Jurin on Vision; and Mr. Sharp on the Operations of Surgery.

LONDON:

Printed for T. Cooper, at the Globe in Paternoster-Row. MDCCXXXIX. (Price stitch'd, 2 s. 6 d.) C. A.

1 . . .



CRITICAL LETTE FROM

Dr. Henry Brace

(Of FARRIERY) on

Kennedy's Ophthalmographia;

Treatise of the EYE.

Together with the proper Answers to those LETTERS by the Author of the faid OPHTHALMOGRAPHIA.

In which are observed, That most of what is material on the EYE in BRACKEN's FARRIERY is taken from the said Treatife of the EYE.

To which is added,

A Recipe, or Rules for Dr. BR ACKEN's, &c. attaining to Eminence in Physick.

First LETTER to Dr. BRACKEN. SIR.

OUR having been pleased to publish me to the World (in your Book of Farriership) is the Occasion of the present Letter. You there, in describing the Crystalline Humour of the Eye, men-

tion the Sacculus, or Coat, in which it lies, as a Proof against his M—s Oculist T—r, that

2 Letters, Notes, &c. relating to the EYE,

this part was not first discover'd by him, accordding to the idle Infinuations of that vain Pretender. So far I am used as to defeating of him. But then, your next Observation on that Head, is to defeat me also; to wit, That on slitting the said Tunic. the Crystalline will immediately spring out. In which you very positively (are pleased) to assure the World, That I am certainly mistaken. I shall first then observe, Sir, that you somewhat suddenly fall very hard upon a young Author, as I was at the time of publishing that Treatise, and which might, perhaps, with some pass for some fort of Alleviation of what Faults, or Errors, I might then, and there, have committed on that nice Subject. One might also have imagin'd, that a cautious, generous, and well-meaning Author (a Searcher after Truth only) would first have sought to be satisfy'd (of an Author still alive) in such particular he judg'd him wrong in, before the fo frankly expofing him to the World; and fetting him in fuch a Light. Especially one whom you seem not to have thought altogether unworthy your perusal. You indeed feem, Sir, justly enough to charge the forefaid Oculift T— r, with the not having fufficiently read or confider'd my Treatile; fince he would, or might there have observ'd, he had made no new Discovery. Pardon me then, Sir, if I cannot help faying, that I can hardly imagine, that any one who has fufficiently confider'd my Account of the Crystalline Humour, and that of the Nature of Cataracts, would not, methinks, be quite so ready, positively to affirm me in Error. But Sir, what is it you affert? Is it that my Description of the Crystalline, with its Tunic, is wrong? Or is it a wrong Account I have given of the Nature of Cataracts? For you fly from one to tother, on my describing of that Part (to wit, the Crystalline, &c.) I shall not, Sir, at present trouble you further to explain myself on this Head, until I know whether you shall judge this any way worthy your Notice. From Sir,

Your humble Servant,

York-House, York-Buildings, Jan. 31, 1737-8.

PT. KENNEDY.

Dr. BRACKEN'S first LETTER, in answer to the foregoing.

To Dr. KENNEDY, at York-House in York-Buildings, London.

SIR,

Have the Favour of Yours, dated the 31st. January, and am forry you should take any thing amis that I have said of you in my Treatise upon Farriery; for I affure you, I rather defigned you a Compliment than otherwise: For you'll obferve the Expression, (viz. page 185) where I say, Dr. Kennedy is mistaken in one Particular; which is in effect faying, that the rest of your Performance is very good, as I really think it is; and, if you writ it when only a young Man, I think you must, at that time, have laid out your Talents in Anatomy very well; therefore please to consider my Meaning as I now express my felf. If my former Words did not thoroughly go down with you, for, Humanum est errare, yet I must back my Asfertion in the Book of Farriery, not only because I have had long Experience in curing Diseases of the Eye, but by reason of the Make and Constructure of that admirable Organ, and the Manner how Vifion is perform'd, was my particular Study and Delight, when I was in the publick Schools for fuch Purposes, &c. and what I only insist upon is, that though you do cut the Capfula of the Crystalline, in B 2 couch-

4 Letters, Notes, &c. relating to the Eye,

couching a Cataratt, yet shall not that Body immediately spring out of the Cavity it makes in the vitreous Humour. And notwithstanding this, I agree with you that the Crystalline is not any ways adherent to the Membranes that furround it; for if it fprung out, on cutting the Sacculus, there could be no fuch thing as distinct Vision performed in that Eye, for Reasons too plain to be insisted upon; especially when I write to Dr. Kennedy, who knows the use of the Crystalline Humour so well, and that the Convexity of the Lens, in use with such, who have been couched, must be in proportion to the number of Laminæ turn'd off by the Needle, when we (as it were) scrape the Crystalline Humour, for the Cure of Cataracts; and by fuch means make it of a more plain Surface, so that the Rays of Light, admitted into the Eye, would not (without fuch artificial Glasses) fall properly convergent upon the Retina.

As to your being an Author of fuch Treatife upon the Eye, &c. and yet alive, I am very glad of it; and, I now affure you under my Hand, that (fo far as I am a Judge) you are both a good Author and Compiler, therefore pray be not displeas'd at me for mentioning you in my Book, as guilty only of one Mistake; since I am not, neither pretend to be, infallible, tho' I must own, I am a little positive, where the Practice is warranted by Experiments.

If there be any Thing farther you would have me explain my felf in, I am ready to do it when thereto requested by any Gentleman, either of the Faculty, or otherwise; and as I expect to be in London e'er long, I shall make it my Business to wait upon you, and discourse the Thing over calmly, for I would not have you and I to fall out, and thereby verify what the samous burlesque Poet says with relation to all Professions except Lawyers, (viz.)

Divines

Divines of all forts, and Physicians. Philosophers, Mathematicians; The Galenists, and Paracelsian, Condemn the Way each other deals in; Anatomists dissect and mangle, To cut themselves out Work to wrangle; Astrologers dispute their Dreams, That in their Sleep they talk of Schemes; And Heralds stickle who got who, So many hundred Years ago.

I am, Sir,
Your most humble Servant,
HENRY BRACKEN.

Second LETTER to Dr. BRACKEN.

SIR,

Received the Favour of your complainant Letter, in answer to my First, (tho' I can hardly judge it very direct in answer to my Interrogations.) Neither can I imagine that the World is to judge so favourably of my Treatise because you quote one Passage only, and at the same time suppose, or affirm me to be mistaken in that one Particular: That from thence, I fay, they are to think that you mean (or that it's in effect faying) that the rest of the Performance is very good. But you'll please, Sir, to observe also, that in the same page, 185, in your Book (omitted in the Letter) you there likewise say, that I am most certainly wrong in this, because (continue you) we never couch a Cataratt but we cut the Capsula, or thin Membrane. &c. That there are several Errors in my Book, whether of Language, Orthograghy, &c. I am pretty well assured of; yet I have not much inclin'd to remo-B 3 del.

6 Letters, Notes, &c. relating to the Eye,

del, or improve it, as not inclining to be more distinguish'd in that Branch, than in any other of the Profession (which I pretend to understand equally well) fince the Faculty in general are but too apt to distinguish a Man on such Branch only, in which they find him knowing: They being for the most part but too deficient in this Particular. Nor shall I pretend to determine how often, fo very much more knowing they are in other Branches; yet I have left off all Operations in this, or any other way, many Years ago. However, Sir, whatever Faults or Mistakes there may be contain'd in the said Treatise, you have not yet hit upon the right one. You feem then, to me, Sir, if not to contradict yourself in your Letter, you at least appear (plainly enough without perceiving it) to answer yourself in the Charge you bring against me. Yet e'er I go further on this Head, I must again observe to you (as in my former) that the Passage you quote out of my Treatise is on my Dissection of the Eye, and particularly that of the Crystalline Humour, in its perfett and natural State, without Maladie, &c. Now if then, as you say, you agree with me that the Crystalline is not any ways adherent to the Membranes that sur ound it; must it not then, Sir, on cutting fuch, and making a fufficient Aperture in the faid Membrane, or Sacculus, necessarily follow, that the said Lens, or Crystalline (no way adherent) will fpring or fall out? Had you diffected this Part in its natural State, and then told me it was not so, you would then, indeed, have faid fomething; tho' I think you have been wifer than to acquaint me with fuch News. And now, Sir, tho' I think I have here faid sufficient to prove it true, what I have there faid in my Treatise, since I speak not of Diseases in that part of the faid Book; yet for your farther Satisfaction, I will go a little farther with you, even in the Disease attending that Part, from which (Dif-

(Disease) you are pleased to take your Proofs of my Diffection of a found Eye, being wrong. Admitting then, Sir, the Maladie of the Crystalline or Catarast (as you fay,) and that you do cut the Capsula of the Crystalline in couching the Catarast; and that a number of the Laminæ are turn'd off by the Needle. when as it were (fay you) the Crystalline is scraped. Now, then, Sir, the Membrane or Capfula being thus furely fufficiently cut, lacerated, or taken off, and the Lens or Crystalline tho' fo diseas'd, yet being no way adherent to its faid Membrane, what, in the name of goodness, should hinder it from falling down, even as the former in the perfect State? Am I then, Sir, to be publish'd certainly wrong and mistaken, &c. because you see not clearly the Difficulties following thereon, as to the nature of Vifion, &c? or am I, or must I then account to you for all the Difficulties you meet with in your Practice? or on this Head? Otherwise you'll rashly brand me to the World with being mistaken, wrong, &c. But, Sir, tho' I have not granted all you affert in the Affair of operating; neither do I judge it necessary to call upon you, sufficiently to prove the whole, fince my Intention here, is rather to defend myself, than to criticise. However, Sir, since there is like to be no Peace in Israel if I do not fome way account or answer you how Vision is perform'd; should the diseas'd Crystalline sall or be beaten down, I must then observe and own to you. Sir, that I am not a little furpriz'd at your asking (or of your Difficulty in this) when I confider (being credibly inform'd) that you have not only translated Monsieur Maitre-Jean; but that you have even writ Notes upon him, which you intend to publish. What shall I say then? For tho' I have not look'd into that Author upwards of twenty Years, yet I well remember, you might there sufficiently fatisfy your felf about the nature of Vision, on the - B 4 diseas'd

8 Letters, Notes, &c. relating to the EYE,

diseas'd Crystalline or Cataract being beaten down, which, according to that Author, by its Pressure on the side or lower Edge of the vitreous Humour, which (by its natural Softness) occasions the Cavity of the faid Humour to arise; and thus to become convex, and fo in a great measure to answer the defect of want of the Crystalline, the' never (fays he) to see so well as before, which (continues he) they never do after couching. But now I think on't, you might have feen all this and much more from the faid Author in my Book, page 79 and 88. Am I then, Sir, to acquaint you with all this, after your just now translating and writing Notes on that Author? But now, as to my own particular Opinion on this Subject, I might, perhaps, be able to fay more, or even fomewhat new; but I judge that I have at present said enough to have render'd this Letter sufficiently long. However, I must yet observe, it seems neceffary I should yet write to you, tho you propose coming to Town, fince I understand they are upon publishing a new Edition speedily of your Farriery, in which I should expect some Alteration, Postfcript, or Errata, &c. if you any way allow to be true, what is here advanced, from,

Sir,

Your humble Servant,

PT. KENNEDY.

P. S. I cannot judge the Compiles from burlesque Wits or Poets to be of great Force, when on serious Subjects; since generally but Wit at best, and meant as such by the Author, rarely to bear a strict Scrutuny. Hudibras well knew, that though Money-ge ting-Lawyers agree in taking Money, or, like Swis, sight for their Pay; yet he well knew

knew (I say) also, that the greatest Lawyers, who sought Truth principally, as Grotius, Selden, &c. writ whole Volumes against each other.

Dr. KENNEDY's third LETTER.
SIR.

Was in hopes of having received some Answer from you to my last (to wit, my second Letter) being an Answer to your first; which said Response to yours, you must necessarily either have found to be erroneous or just: If the first, you ought, no doubt, in such case to have shewn me my Error, and so to vindicate what you had before affirm'd; which I doubt not you would readily enough have done, had there been the least room for it. But if found just, I say, I cannot imagine but that you ought as freely and readily to have own'd it so to be; especially if you sincerely seek after Truth only, and not an Obstinacy of refusing to acknowledge it; fince, as you observe, Humanum est errare. For my own part, were I guilty of fuch a Fault, I should very readily, for the fake of Mankind, freely own it; there being less Dishonour in so doing than in the refusal, or in the persisting in Error. Thus a Man who only feeks Truth, Justice, and Improvement, will be in no Fear or Apprehensions in communicating his Thoughts under his hand. But 'tis well, Sir, if you be not more ready to attack without giving proper Notice in such Affairs than to defend, and to make good such attack, such Person (unawares attack'd) having recover'd himself, or being now properly prepared and in a State of doing himself Justice. Or, have I then in my last resolved or fatisfy'd you in your Difficulties, yet incline not to own

16 Letters, Notes, &c. relating to the Eye,

own it? Nor judge proper to back (as you fay) What you have afferted in your Farriery. However. Sir, fince I cannot have a more full or a more direct Answer from you, I most conclude that you still approve of that you first published; since the fame Words are in the second Edition continued as before, and just now publish'd; even since the writing you my last Letter, by which I required an Alteration to be made in that particular, of my being wrong, &c. in your faid fecond Edition; which 'tis true, the Bookseller acquainted me was printed off before I spoke, and could not therefore be alter'd without great Charge; that it was bis Book, not yours, &c. I told him, as I had done you, it might be supply'd by Errata or Postscript, at a fmall Expence: Nor was it any way material to me who the Book belong d to. Now, fince there has been no regard had to these Remonstrances; nor that you have taken any Notice, or to have made the least Apology for so doing; I must, I say, in effect then conclude, fuch second Publication to be a kind of Answer. I have, however, always, first chose to communicate my Thoughts to fuch as have done me any Injustice, rather then rashly to take the more rigid way of doing my felf Justice, and have thus accordingly still chose to write you this; tho' probably from what has before been observ'd. tis likely you judge you have taken the Method most proper for yourself, and consequently leave me to take mine, or to determine what is most suitable to

Your humble Servant, &c.

York-house, March the 4th, 1737-8. London.

N. B. The first Post I might reasonably have expected your Answer, I found instead thereof you had writ to your Bookseller, who, in a few days there-

thereafter, publish'd your second Edition of the said Farriery, in all probability by your Direction that Post, at which time I understood that your Affairs together were then finish'd, and intended not now to come to Town as you had proposed.

Man man man man man man man man man

Dr. BRACKEN'S Second LETTER.

Lancaster, 7th March, 1737.

SIR,

Received your second Letter this Post, and should have answer'd your first before now if Business had not hinder'd; and really if I had found any Reason to alter my Opinion, I should (on reading yours) have omitted fome fmall Concerns. I had then in hand, to have given a proper Anfwer; however, I now say, and vouch it, as an undoubted Truth to a Demonstration, (viz.) That 'tis impossible, according to the Rules in Optics, for the vitreous Humour to supply the place of the Crystalline, when the latter is wholly beat down, or put out of its place in couching for a CataraEt; and this is very easy to be shewn in a Camera Obscura, for you cannot, by any Glass, or Diaphanous Medium, in the Shape and Figure of the vitreous Humour, either before or after the Crystalline is remov'd, cause the Luminous Rays to become convergent upon the Retina; nay, even not so much as to represent any Image whatsoever: tho' I will readily own, fuch Person may distinguish Light from outer Darkness, and some of the Colours which contain the largest Particles of Matter, such as Red, &c.

If you only place yourself in a proper Camera Obscura with a Glass of a fit Convexity to represent the Cornea, and another held in your Hand (which must

12 Letters, Notes, &c. relating to the EYE.

fent the Crystalline, I say, by this means the Rays become properly convergent upon the Retina, or white Paper; but, on taking away the convex Glass in your Hand, and placing a Glass of a globular Figure, (that being near the Figure of the vitreous Humour when you raise it up, as imagin'd, in the place of the Crystalline;) I say, by such a Glass, nor other Diaphanous Body of the same Shape, will you be able to bring the Rays to a proper Focus upon the Paper that represents the Retina.

I must confess Maitre-Jean has worded the Paragraph as you mention; but tho' I believe him a very good, nay, one of the best Authors of his Time, yet I know he is often mistaken in his Accounts with relation to the nature of Vision, which proceeds from his Desiciency in the Knowledge of Natural Philosophy: And this is no wonder, seeing most of the French are ignorant of that branch of useful Learning, being generally very volumi-

nous, and very infipid.

If you will please to state the Case, and keep to the Point, I shall willingly answer in the best manner I am able; and if we cannot agree about the Matter, I would have us consent to the Determination of a third Person, well skill'd in Opticks; and no doubt but such there are in England, althobut very sew, I fear, otherwise we should not so often see Blunderers rais'd to Dignities which they are not worthy of; for neither Grant, Read, nor Taylor, three Oculists to the Court in the late Reigns, knew any thing of the Matter, which show deficient we are in judging of proper Persons to restore us to our Eye-sight, when we want such Helps.

I

I shall come to Town yet, and I think to settle at London; therefore I must defer my surther Answer to your Queries 'till then, and am,

SIR,

Your's sincerely,

HENRY BRACKEN,

P. S. Pray excuse Haste, for I have writ Post-haste.

Dr. KENNEDY'S Fourth LETTER.

Now freely own to you, Sir, that your fecond or last Letter of the 7th of March, vouches to me (as you say) for an undoubted Truth to a Demonfration, that it is unnecessary for me to be much defirous of any more of your Answers on the prefent Subject, or any longer to continue fuch an unfatisfactory and unprofitable a Correspondence; which I freely own also, I now almost think I might as well not have troubled myself with: But Men must experience each other first by Correspondence, or otherwise, before they can sufficiently know each other. I might indeed have fatiffied myfelf (perhaps) on this Head, had I read your Books; but tis very certain that I read no more of 'em than that Paragraph, or Part, which relates to me; and now, probably, I shall not much incline to examine any further after the Specimens of Letters you have thought fit to fend me. You warily observe in your last, That you write Post-baste. Yes, truly, it would verily seem so; and 'tis well if you do not read so likewise, if not when asleep. In your last, then, you call my third. Letter my second, and my second my first; which, you say, you would have answer'd sooner, &cc. where-

14 Letters, Notes, &c. relating to the EYE,

whereas you had already answer'd my first by your first some Weeks before; yet this is a small Fault, easy to be excus'd, in one who writes Post-baste. But it appears (I doubt) to a Demonstration, that you publish your Remarks so also, if not your Books in general. I cannot but at the same time observe, it seems more than probable, that my foresaid late pressing Letter in a great measure forc'd your second Answer; tho' not one Word to the real purpose in question, yet merely served to demonstrate, that you resolved to say something, in order stiffly to deny, &c. (as in your first) you freely own, that you are a little positive: It is well if the World do not construe it Obstinacy in ---or even in the clearest case. But in your last, Sir, you observe, That you found no reason to alter your Opinion. I do indeed much question that any Reafon, tho' e'er so evident, can bring you to own your Error. Could any thing be more evident, clear and plain, than what I writ you in my fecond, to wit, my Answer to your first Letter? wherein I observ'd, what you attack'd, and said in your Book I was mistaken in, was, That of the Defection of the Crystalline Humour in its natural State, particularly, that of the springing, or falling out of the said Crystalline, on cutting its Tunic, Sacculus, or Capfula: Of all which you think proper not to take the least notice in your said last, because (no doubt) I had fufficiently prov'd that to be true from your own Words, viz, That the Crystalline is not any ways adherent to the Membranes that furround it; and must therefore necessarily follow, that, on cutting the faid Membranes, it must consequently fall out: Which, as I then told you, was a full Answer (without going any further) to what you charg'd me with being mistaken, &c. in your faid Book. Yet with Good-Nature, inclining to indulge you, so to illustrate these Matters

ters a little farther, for your more particular Beboof and Instruction in that which you plainly appear'd to be at a loss in. I then also observed to you, that it must likewise as necessarily follow, in like manner, in the diseas'd Crystalline, as in the other, by your own foresaid Rule, of its being no ways adherent, &c. I even then, yet farther still to illustrate Matters for your proper Satisfaction, inclin'd to acquaint you with what you feem'd to be at a great loss in, and feemingly intirely unacquainted with; even tho' as faid, that you have translated the Author whose Opinion I mentioned you on that Head, and that you had also read my Book, which likewise quotes the same Author and Particular, because as I then observed, without some fuch Indulgence towards you, there was not like to be any Peace in Israel. Now, what is the Consequence of all this, or of fuch a generous Usage and Indulgence, (no way necessary to make good the real Matter in dispute, already sufficiently provid from your own Words?) Why, truly, the consequence is, that you think fit, in your faid fecond Answer, to drop, and take no further notice of this material Part, or of the real Thing; but, like a drowning or dying Man, you lay fast hold of that which is no way material to the real Thing in debate, (first laid down) but, I fay, catch fast hold of that which I gave you as the Opinion of a noted Author on that Head, yet at the same time also acquainting you that I referved my own private Opinion on this Head. How is it then that we shall find the present State of the Cafe? Why, truly, you have intirely dropt or retreated from me, to intrench yourself in your Camera obscura; or like a blind Man, who cannot distinguish Colours, or see Things, threshes all that comes in his Way, or lays fast hold of any one that happens to be next bim: and thus you have in like manner laid fast bold of Monsieur Maitre-

16 Letters, Notes, &c. relating to the EyE,

Tean, and would take him for me; and the great misfortune is, that you would, or really feem not to know it: But then, you are ready to cry out. if this be the case, that you have hold of him instead of me, it must furely in honour lie on me to relieve him. No truly, Sir, I think not; e'en fight himself; &c. I have business of my own; nor do I know that I am oblig'd to any fuch Undertaking. But, alas! Sir, I must as yet acquaint you, efpecially fince you mention referring the Dispute betwist us to a third Person, if any such there are (say you) proper, &c. that the Difficulty or Contest you are now in with Maitre-Jean has been long fince fufficiently debated pro & con, before the Literati in France, and elsewhere, and on which whole Volumes have been writ; fo that it appears to a Demonstration, that you are intirely unacquainted with this, as well as with the various Differtations to the same purpose in the Journals des Scavans, on which the faid Literati have already made their Decisions. But had you a little better examin'd my Treatise (without reading all these) particularly in Page 23, 76, 78, 79, and 80, you might there possibly have found sufficient on this Head, without going further, and thus have prevented all this Trouble. Nor would I suppose you to want one to explain it for you, or should you yet think proper to look into it again, I would then bar your reading it Post-baste. But it seems likewise frange you should propose to me the referring to a third Person what you have already publish'd as certain; but the World (I doubt) will plainly enough fee to a Demonstration, that your Certainty at best is very uncertain: Besides that, as I have faid, what you propose to refer, properly belongs to Maitre-Jean, and his Adherents, whereas you feem to be on the fide of Woolhouse, probably without knowing your Leader. fince

fince I here mention Maitre-Jean, whom you allow to be one of the best Authors of his Time, yet you at the same time observe him to be often mistaken, as well as very deficient, or ignorant in natural Philosophy; and that all his Countrymen (confiquently he also) are very voluminous and insipid. Now, what, in the Name of Goodness, should possess any one (as it seems you have) to translate such an ignorant, dull, insipid Author? tho all the Harm I wish you is, that you knew one half as much. In fine, Sir, I wish you also knew when, where, and whom to attack, as well as when to give up. I now must leave you to remain confin'd in your Camera obscura, whilst I remain,

Your's, &c.

York-house, March, the 16th, 1737-8.
London.

Pr. KEN

Dr. BRACKEN'S third LETTER.

Lancr. 19 March, 1737.

SIR,

Am not so fast shut up in my Camera Obscura, or bewilder'd in your Labyrinth of Words, as you may imagine; and, I assure you, I am ready, without any ill-natur'd Language, to enter the Lists with you, and print our Disputes in the publick Papers.

You will wonder if I should guess your Age by your way of writing; yet, I think, I can come pretty near it, tho' I have no other Helps: for I never heard of your being very eminent in the Profession, therefore I might not so well know your Standing, as we term it. Well then, let me see, you are about 55, and therefore growing old, and C crabbed.

18 Letters, Notes, &c. relating to the EYE,

crabbed, but not one whit the wifer than you were in 1713, when you published your Book, intitled Ophthalmographia, or at least you are unwilling to own it. But, when Jesting is over, I must insist upon it, that the Crystalline Humour of the Eye will not, in a natural State, on cutting the Tunica Aranea, immediately spring out of its Place. And herein, I think, I fairly attack and contradict your Doctrine; nay, and I will make it appear too: For I need only take a Calf's or a Sheep's Eye, if you'll allow the Experiment to be as good, and I think it is, on those Creatures, as human Bodies; I fay, I will take one of those Eyes, and with a Needle scrape off several Laminæ of the Crystalline, and afterwards diffect the Eye, when you will find the Crystalline in its proper Place. But, perhaps, Dr. Kennedy may say 'tis possible to do this, without cutting the Capfula of the Crystalline, tho' I believe his Opinion will be fole: I can also tell the Reason why the Crystalline does not immediately fpring out on cutting the Capfula when we couch a Cataratt. But this may serve for another Epistle, if you defire it.

As to your Journal des Scavans, I have read them, as well as most Physical Essays which relate to a human Body, and I hope I have digested them, tho' you say I read and write post-haste: And, in my opinion, we must read faster than you seem to write, or else we shall but make a poor Progress in our way of Business: For, if you forget not the first Aphorism of our Leader, you will be of opinion, that Life is short, &c. and that if a Man's Head be truly fashion'd, or bien tourner, as the French have it, he will easily sift the Chaff from the Grain, without splitting Hairs, as they do in the Journal des Scavans.

I can tell you of a Man, and his Name too, that fell thro' the Ice, and was feveral Fathom under water.

water, for the Space of fix Hours, and after that was taken out living, when he declar'd he heard the Bells at Stockholm ring most of the time he was in his watry Element: Yet tho' this is authentickly recorded, believe it who will, notwithstanding the plausible Argument of the Foramen Ovale being open, in this particular Subject.

If you write any more, don't be ill-natur'd; for if you are, I will publish an Advertisement, and give you a fair Challenge to answer me, so that the World may judge whether or no I have wrong'd you.

I can't say I read your Book about the Eye over; but I read so far as to find it was published, six Years after *Maitre Jean's*, and that you understood so much *French* as to become a *Plagiary*, which was far enough for

Yours, &c.

To Dr. KENNEDY, at York-House, York-Buildings, London.

H. Bracken.

KEN'S third or last LETTER.

this Author, (as there observed) that the two Specimens of Letters he had sent me (the second of which was absolutely forced from him with difficulty) were fully sufficient to satisfy me so far, as not to desire any more of such idle, frotby, pretending, trisling, and shifting Stuff, so little to the true purpose (whether from a real Ignorance, much to be suspected) or that it was otherwise, made it much the same to me. I was however well satisfied that such a smart Representation and Ridicule of his Desence, (as that I last sent him) must either bring him to his Senses, or otherwise, at least spur him to an Answer (which he so little inclined to,

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as

20 Letters, Notes, &c. relating to the EYE,

as may eafily be perceived by his fecond) and this last effect it had with full sufficient Speed; being it was instantly answered, as may be observed by the Dates of the faid Letters, altho' I in reality wanted no more of any fuch wild, bewilder'd Epifties. Nevertheless, I cannot but say, that this third or last Letter of his fatisfied me beyond any of the former, fince he, by this, painted himself out more exactly (his Spirit and Metal being now thus raised) he accordingly so better discover'd his naked Wit and Capacity, Penetration, Obstinacy, Contradiction, Vanity, Forwardness, Memory, Knowledge or Sincerity, &c. All which still confirm'd me the more not to trouble myself any further with the continuance of fuch an unprofitable Correspondence. Thus then I have rather chose to make my Remarks (to the Publick) on this his third or last Letter, than any other way to answer it; by which fuch as incline to amuse themselves this way, or who any way think it worthy of their perusal, may have this Opportunity, and thus judge thereof, as they shall think most proper.

First, then, It is very well known that there are few who are so closely shut up in their Camera Obscura, or Dark Room, where I lest him, but that they will every now and then bolt to the Grate, still so to sputter in your Face, there to curse and swear, as also, to continue to give bad and foul Language; so likewise to call you Names; or, lastly, to throw even the Contents of their P—ss — P—t in your Face, as a full Proof of the strongest and best Reason they are able to give you.

My Labyrinth of Words, as he mentions it, is such a Labyrinth, (I dare to affert, and do believe, that most of Mankind will be of the same Opinion) that it is fully sufficient to keep him so shut up, as never to be able to get out of it. But if he would also be understood, as he seems to infinuate, that I have

have there used too great a Number of Words: I will eafily and readily agree, that fo many used to fome Men might justly enough be reckoned too many; but when we consider them as used to those of lesser Capacity, Penetration and Perspicuity, or that it proceeds from an untoward Obstinacy, or a real natural Defect, the Want of Apprehension, or the Unwillingness to the receiving of any just Impressions, it will then, in such case (I believe) be found to be absolutely necessary to use full as many (not fewer) Words; being that such undocil, muddy, opake Genius's, must have the same Words, Phrases, or Sense, several times repeated over to them, and perhaps even variously changed also, into different Shapes and Forms, before they will, or can rightly comprehend the Meaning thereof; and even lastly, but rarely, or ever justly, to take, or receive the Whole.

As to his Assurance of being ready, without any ill-natur'd Language, &c. I must refer this Particular to the Public, to consider the very good-natur'd Language he goes on with in the said Letter; as first, in observing that of my Age, my growing old and crabbed, my want of Eminence in the Profession, my not being one whit the wiser than in the Year 1713, calling me a Plagiary, &c. To answer him then in his own Stile, (being I never saw him) were I to guess his Age, by his manner of Writing, Apprehension and Judgment, Hastiness, or Testiness, with the Politeness of his Words, or the Crabbishness of his Expressions, I must consequently judge him to be about Nine, or Ninety, if not about 100, because old Folks are commonly said to be twice Children.

As to the Word *Eminence*, he is pleased to make use of, particularly in so far as it relates to the *Profession*, this seems to me to be such a most notable, and so very copious a Field, that I could, methinks, write a whole Volume on this exten-

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five

22 Letters, Notes, &c. relating to the Eye,

five Subject. I shall however, at present, content myfelf with the few following Hints thereon, viz. First, That I had examin'd nothing with regard to his Eminence, or that of his Standing, when I first writ into Lancashire to him, otherwise I might probably have faved myself that Trouble; but so far from having the least Thought or Consideration of his, or any other Person's Eminence, who in some remote Corner might apply himself to the patching up a Treatife of Farriery (tho' even filch'd) from the principal Authors on that Subject, for the Use of such country Folks as know no better; yet had he, I say, been a professed Farrier, who had been idle enough to gather together, out of others, fuch a Jumble to make up a Book, whom nevertheless I could at the same time any way imagine to have the least good Intention; any one such then, I say, being pleased to quote a Passage out of any Treatife written by me, and which Passage he judg'd, and publish'd as erroneous, at the same time feeming to allow the rest of the said Treatise to be good; I should from thence imagine, that he meant no ill, and so readily conclude, that he deserved to be writ to, and I would accordingly endeavour to fet him right, by a Letter on that Head, merely out of Good-nature and Humanity, as well as from a Love of Truth. Thus to fet a bewilder'd Stranger in the right Road, and from a Defire, at the same time, that the rest of the heedless part of Mankind might not follow fuch a strolling Guide, or in the least to be led astray by any such. But now, to come yet a little closer to the word Eminence, I must own I should not have been displeased that he had given us his own particular Definition thereof, being he may have affix'd some special Ideas of his own thereto, beyond the common.) However, as to my own particular, I must freely own,

own, I trouble my felf very little (or not at all) about the common Name, or the Title, which a Man receives in the World, whether by Custom, Favour, Interest, &c. or with that of the Show and Figure which he makes, or even that of his great Flutter in Business, or the common Voque and loud Cry that runs after any such Person, since he may, for all this Show, Noise and Flutter, be little or no better than a pompous Charletan in a splendid Equi-No, no; these are not in the least page, &c. any of my Confiderations, or what I have the least regard to, with fuch I incline to correspond, or reap the least Instruction from, since it is that of a real Knowledge in what a Man pretends to, and ought to understand: Let him be e'er so obscure in the most private Cottage or Garret, tho' even there in Rags, I shall rather endeavour to do the Justice due to fuch Merit, and be at least forry he remains fo much bid, and fo much negletted by the World, the Fate of many, perhaps even the greatest What is it to me, that a rattling, fluttering, burrying, buftling, cloudy-pated, confused, or gravely vain Fellow, makes the most pompous Show, either in his Equipage, or manner of living? is greatly fought after, and admir'd too by Town and Country, nay has even all the fine Titles too, as well as of the longest standing, and thus to be regarded by the unthinking Town, and with the unpenetrating Country-Folks to be that most deservedly eminent Person; when at the same time, I say, upon a due Scrutiny, I do in reality find there is little of that true Knowledge in him, or of that he pretends to, and should know. Are not, or ought not, these rather to be greater Proofs that he deserves only, for fuch, to be the more contemned and despised? Thus, should the Apprentice Boy of a Surgeon or Apothecary, of but a Twelvemonth's standing, know more of Anatomy or Physick, than our busy, pre-C 4 tending

24 Letters, Notes, &c. relating to the Eye,

tending Critic, I should esteem and conclude the former to be the most valuable, (nay, in my Eyes, the more defervedly eminent too) and that the latter only deferv'd to be laugh'd at for his Titles, Long-standing, or any other kind of vain Eminence. if he had it. In this manner it is then, that the Reality, not the Names or Shadows of Things are only fought after and regarded with Men of real and true Knewledge. But now, as to my own Particular (especially in this way) has not my Treatise of the Eye been well enough received in the World? Nay, has not even he himself allowed and own'd it under his own hand to be good? What is it then properly he has further to do with? or what has he to do with this Eminence? However then, even to give some Answer to this improper and impolite Question, without, at the same time, supposing my felf to be any way like some Men of the greatest Merit, who (as has been observ'd) have often had the least Interest, so (generally) they have also had the most Enemies, particularly in all corrupt Societies or Times; yet without, I say, in the least apprehending this to be my Case, if he judges of Eminence by the Greatness of the Practice. even Galen himself, that great Author, and Father of the Profession, had nothing near so much Practice as at that time a certain Roman Physician, now hardly known. Nay it is even a question, as supposed, whether Galen was ever Physician to the Emperor; or, if he was, what would that prove? Is not Dr. T—r, O— to his M—? &c. Ratcliff furely had much more Business than any of the King or Queen's Physicians in his time: Thus they were more eminent in Honour, whilst he was so in Practice; nor would he, as 'tis said, accept of that eminent Station. How little then even fome others, any more than he, may esteem, or value Titles, Names, or Places, thus to acquire such Eminence,

Eminence, may be the Question? That so very celebrated Author Celsus also is question'd whether ever to have practiced; nor had he any Titles, that we know of: Yet, as to my own particular, who is it that can pretend to determine, or fay, whether it may be my own Fault, or that of the Neglect of the Public, that I am not in the middle of more bustle to be sought and run after with so much Noise and Hurry? Or is it that this excellent Correspondent thinks I ought to run about the Country feeking for Business, so to be more heard of in this way? or, if not this, must I, to oblige him, (or to form him proper Ideas) strongly push for it, and greatly crave it, even in Town? Supposing I now should incline to live without Business, or be indolent, or otherwise incline to divert myself greatly with my particular Pleasures, or that I should not much incline to be employ'd, unless better paid than the usual, or to have a more considerable Consideration at once, for putting others, who defire to attend more in common Practice, into the most proper, safe, and shortest Method; (tho' the World may not so readily come into any such Scheme;) or if, as yet, that I incline to be gratified, as Lawyers are, before-hand, so better to judge of the Equivalent, for putting them in some such like easier method of cure, and that I incline not over-closely to be pinn'd down to common Practice and Attendance, according to usual Form; how stands it then? Or if it be that my Interest in the World be not sufficiently ftrong, (so to be well recommended,) or that I am fome how defective in the knack of pleasing (any more than I am him) other pretending People, Patients, Pothecaries, or Practitioners; or that I would not willingly be fo over-much mark'd out in this or any fuch like particular way, (as I had before hinted to him in my Letter,) being, as I then told hım,

26 Letters, Notes, &c. relating to the Eve,

him, I pretend equally to understand the other Maladies of human Bodies: Now, does all this then prove my Error, or defect of Knowledge in what I have writ, or pretend to? or, is it any Proof of my want of Eminence in this way, because I have not made a greater Noise or Bustle in Town and Country? And yet, notwithstanding all this, I should have been obliged to him, that he had inform'd me who there is in our Dominions that has writ better, and is more knowing, or is more eminent in this Way, even fince the time of my first publishing that small Treatise? All which I should incline to refer to the most judicious, of whom I must at the same time ask Pardon, for saying this much of myfelf, which I know is not an agreeable Subject to the World in general, but that I hope it may prove the more pardonable, as being fo forc'd and oblig'd thereto, thus to advance so much in my own Defence, a Necessity which has no Law. might likewise further observe, that I had in my former Letter acquainted him, that I had long fince entirely left off the performing of any Operations, which for the most part carries a good deal of that kind of Business along with it; but, before I entirely finish this Affair of Eminence, I should be glad to know also how this critical Author could possibly be so very weak, as to quote any Author or Treatise (to a vain Pretender to the Discovery of Novelties) as he did mine, and at the same time to upbraid him with not reading or understanding it, unless, I say, he judged such Author sufficiently eminent, and worth the mentioning. And now, to lay aside any further Observations on Eminence in this Profession (tho' I may perhaps anon present him or others with a particular Receipt on that Subject for their further Instruction and Government in this way) I shall now then leave it, and, in the next place, observe, that he after this takes notice.

notice, that, the now old and crabbed, yet that I am not one whit the wifer than in the Year 1713. I have before spoke of the first Part, to wit, that of old Age, &c. Now, as to the latter part. to wit, that of not being any wiser; -- no; truly not in that particular, I freely own, I am not; nor can I possibly desire to be more so, than the true Knowledge of the thing will admit of, to wit, the furthest and greatest Demonstration of Truth. But here it may not be amiss I take some notice of his pretending to answer somewhat to the Affair in dispute, before I make any further Answers to his Billing sque Stile, tho' the one is in reality as trifling, dull, shifting, and chicaning, as the other is rude and abusive. However, he being still willing to say fomething, as one whom we fay dies very bard, now finding himself to be so bard set, and thus to be entirely drove from all his other Fences or Refources belonging to Maitre-Jean, whose Works 'tis plain he did not know or understand, tho' he pretends (in his Book) to have translated bim; yet finding, I fay, to his great forrow, that he was now forced to leave these dear trifling, gallymafry Resources (nothing at all to the real purpose, but merely for the fake of faying fomething) he now here then, in this his last, would pretend to come a little more to the real purpose in dispute, tho', in truth, still a downright Shift, as well as the former: Yet here, however, he would pretend to come to the Anatomical Point in dispute, which I had more than once observed to him it entirely turn'd upon, and on which he is pleafed to compliment me, in his fecond Letter, that I must have laid out my Talents very well in Anatomy; yet, unluckily for him, this of Anatomy, which he has no way discovered his tolerable Skill in, is the only Part of the Book that he has pretended (or chose) to criticise on; much like fuch who would vainly value themselves the

28 Letters, Notes, &c. relating to the Eye.

the most, on that which they are the weakest in, or know the least of. Well, let us hear then, The Crystalline Humour of the Eye, says he, will not in a natural State, on cutting the Tunica Aranea, immediately spring out of its place. Now this honest Gentleman being (it feems) fo very much in Years, that his Memory here altogether fails him, and cannot confequently reflect that he in this most plainly contradicts himself, (unless yet still to call in a little further help of a shameles Shift or Chicane, as he evidently feems to do) being he has (as before observ'd) in his former allowed and declared, that the Crystalline is not any way adherent to its Membrane or Tunica Aranea. If so then, as we have likewise already said, what in the Name of Goodness should hinder it from falling out of this said Tunic, Membrane, or Sacculus, on its being sufficiently laid open? Well, but then, our shrewd, shifting, philosophick Sophister has got a Salvo for that too, and herein lies his notable Chicane; for he intends to take a special care not to have it sufficiently laid open, lest it should so fall out, tho' I should be glad to know why, on diffection of this Part, it should not be sufficiently so laid open. Thus (as has been faid) he chooses to go on, because he would still have something further to say, more fully to demonstrate how very little he knows of the matter, and indeed to prove more fully and plainly, that he has never diffected a human Eye in bis whole Life. Well now, be it so then, as he appears to be more conversant with Cattle than with human Bodies, he is thus confequently willing to beg the question; and so the better to prove his Affertion, and at the same time me to be wrong, he will make choice of another Subject than what I fpeak or write of: That is, he will prove it (fays he) by a Calf's or Sheep's Eye, being he concludes the Eyes of those Creatures to be exactly the fame

fame as those of human Bodies; which also proves how very little he knows even of comparative Anatomy. Now not allowing them to be the same, how then? since differing, I say, in several Particulars, besides the oblong Form of the Pupil in fuch Animals, which of course will render it to be much more easy for him to perform such an Operation, as he would willingly undertake; or pretend to, (tho' not in the least any way to the purpose.) Well but now I find, notwithstanding all that's here said, he still much inclines that I would not be fo crabbed, but favourably and kindly to admit of his Proposal. Well then, be it even so, I will now so far indulge bim with his Calf's or Sheep's Eyes, as to suppose them to be little or no way materially different in the Particular spoken of and in dispute, to wit, that of the Crystalline, with its Membrane: Very well, and this now being allow'd, how then? Why, truly, our nice Operator, or delicate Anatomist, is to introduce gently his Needle, and then (fays he) fo to scrape off several Laminæ of the Crystalline, and afterwards diffect the Eye, when you will find the Crystalline in its proper Place. Now, observe him well, what a most excellent Speech bere is, made by our special Operator and Anatomist; tho' I would earnestly beg to know, what, in the name of wonder, is it this busy Needle has still to do in this Affair, spoken of in my Book? On a full Diffection of this Part. viz. the intire and naked Discovery of the Crystalline, by laying its Membrane or Sacculus sufficiently open for that purpose. Or what, for God's sake. has this scraping off several Laminæ of the Crystalline (with the faid Needle) to do in this? But, notwithstanding all such trivial Objections, we are, neverthelefs, still most willing to go on with our Story. Well, and how then? Why truly, we would flily, and most carefully, as well as very dextrously, flide in

30 Letters, Notes, &c. relating to the EYE,

our foresaid valuable Needle, so to scrape off the Laminæ of our Calf's Eye Crystalline; and having done this, we would then, even as dextrously, sup it out again, without doing any farther Mischief: And this would be our Method of diffecting of a buman Eye; and our way of fully and fufficiently proving (to our own Satisfaction) our Criticism to be just, and that our Adversary, whom we have so judiciously criticis'd on, must apparently and unquestionably be horridly mistaken, and quite wrong in his Diffection of these Parts, or that of a human Eye; fo very evidently demonstrated on our Calf's Eye. by our most accurate and peculiar Method of diffecting. And this is the Manner of reasoning of this admirable, critical Author, and fingular Diffector; which you'll be pleas'd to allow is not fo greatly amiss for one so confin'd to his Camera Obscura. But to go on, and to prove, yet more fully, fuch Diffection of the buman Eye to be intirely false, as mention'd in our Farriery, and now so duly chastized by us; we also think proper to throw you in the Hint, that we can also tell the Reason why the Crystalline does not immediately spring out on cutting the Capsula when we couch a Catarast. Excellently well shot again, (an unparallel'd Marksman indeed) yes truly; but this (continues he) may serve for another Epistle, if you desire it. No, by no means, my dear Sir; I most heartily beg you would not put yourself to any fuch unnecessary trouble on my account, fince I must indeed freely own to you, I have had full enough of 'em; even tho' we should have such notable Remarks why Cataracts do not drop or spring out of a Calf's Eye on diffecting it, for the discovery of the Crystalline Humour of a buman Eye only. But, in reality, he thinks it somewhat hard this fine Story should not be beard; since all along, whilst in his Camera Obscura, his Head has been so very full of this Maladie, to wit, Cataracts, which so obftructs.

Structs the Sight when he diffects the Eves of Cattle: But now to proceed yet a little further on our present Letter; let us even ramble somewhat further on the Subject of our great reading. He now then, thinks proper to acquaint us, that he has read all those Works, the Journal de Scavans, as well as most physical Essays which relate to human Bodies. (for he speaks not now of Quadrupedes, nor of compleat Treatises or whole Works, but of Essays only.) However, these he hopes he has digested well: And fo truly it would feem, by his Letters here writ, &c. The next thing then he is pleased to observe, and find fault with, is, that I do not write faster, or not enough of it. I know not how much too flow. or too little I may write; but 'tis well if some may not find fault or make flight of my having writ fo much; fo that it will be a hard matter to please all Parties. But now how very well his Head is truly fashioned, and bien Tourner, which he mentions; or how fit it is for the fifting of Chaff, I will not pretend to determine: but I'll agree with him, as he feems to admit, that it is altogether unfit for the splitting of Hairs, as they do in the Journal des And here our fingular Critick feems only to fall upon the principal known Authors or Litterati in the World in our Age; fince the Journal des Scavans is only a Collection of their principal and most curious Accounts or Observations. why should not such Freedom as this ('tis true) be allowed to one shut up in his Camera in Lancaster? Well, since so then, let us e'en yet ramble on more fully to prove the Folly of these bair-splitting Messieurs, as well as that of the Gasconading Swedes. He here then observes the Ridiculousness of that Account, related by them, of the Man who 'tis faid lived fo many hours under water. And here he feems willing to take an Opportunity of letting us know, that he has heard of fuch a Hole as the Foramne

12 Letters, Notes, &c. relating to the Eye,

Foramen Ovate (still open in this Subject.) But had he likewise observed to us (at the same time) the Ductus Bottali or Arteriosus, and that it also remained open on that occasion; he, perhaps then, would not have found his Affertion (so strongly attested by fuch learned Vouchers) to have appear'd to be fo very ridiculous: at least fuch Knowledge might possibly have, at least, induced him to be a little more inclinable to have suspended his Judgment on the Subject, without believing himself obliged to take the Sacrament for the Veracity thereof. And as to that of the bearing of Sounds under water, were he (appearingly) better acquainted with the Doctrine of Undulation, communicated on or through different Fluids or Mediums, probably that also would then prove to be far less wonderful to him.

He, after this, thinks proper to exhort me, that if I write any more not to be ill-natur'd; for if I should be so, he then threatens to publish an Advertisement, to give me a fair Challenge to answer bim; so that the World, says he, may judge, &c. What! fo very ready to challenge a Person not sufficiently eminent? But that matters not now; we are grown very angry. Well, if so, I must leave the World to judge whether I have much reason, after what he has writ me, that I should nevertheless write to him in the best-natured and most pleasing Stile? Yet I hope it will, at the same time, be obferved, that I appear not, in writing this, to be greatly out of humour: And as to the threatening part, which relates to the publishing of this Difpute, he will by this here find, that I have faved him that trouble, being thus willing to oblige him in the publishing it for him. However, if he should not so greatly relish the whole, let him. e'en blame himself for having forced me to this Extremity. But now come we to the last Paragraph

graph of his Epistle, by which he would seem willing to infinuate, that he had not read my Book over, thus to be even with me for having faid that I had not read more of his Book or Books than that Paragraph or Part which relates to me. But here again, this very unlucky, poor Gentleman feems more fully to prove his Age, alas! far too much, by the great Failure of his Memory (which now it feems evidently decays daily) fufficiently here proved: I say, by what he writes in his first Letter; when he fays, for you'll observe the Expression, page 185, where I say Dr. Kennedy is mistaken in one Particular, which (continues he) is in effect saying the rest of your Performance is very good, as I really think it is, &c. How! only guilty, or mistaken in one Particular, which is, fays he, in effect faying the rest of your Performance is very good, as I really think it is. What! Mistaken only in one Particular, the rest very good, as he really thinks it; and vet all the while never to have read it over? This I doubt will appear somewhat mystical to the Publick; especially if they should not favourably construe it decay of Memory. Well, but let us then try a little, if in going on yet further he any way better explains himself on this Head. Thus he goes on, in the same Letter, I now assure you under my Hand (that so far as I am a Judge) you are both a good Author and Compiler, therefore pray be not difpleas'd at me for mentioning you in my Book, as guilty only of one Mistake. How then? both a good Author and Compiler .--- Guilty only of one Mistake, and still never to have read this Author over, is full as mysterious as the former, unless more excusable by what has been hinted. But then, indeed, he also thinks proper to add, fince I am not, neither pretend to be infallible. Most undoubtedly so, truly; and that it will too plainly, in all likelihood, fo appear to the Publick; but then it were likewise to be wish'd

34 Letters, Notes, &c. relating to the Eye,

wish'd that you were not quite so positive as you freely own yourself to be. The next remarkable Observation is, that my Book was publish'd some Years after that of Monsieur Maitre-Jean: Very well, and who doubts it, or pretends to difpute it? Do I not, with credit, quote that Author? Translate or introduce his new Opinion of Catarasts (its being the very Body of the Crystalline, which in that Operation is intirely depress'd) representing fuch his new Opinion, in the most advantageous Manner. How is he then, or could any one suppose my Book to have been writ before that Author's Book, which I there quote in the Manner spoken of? Well, but the grand, home Charge then is, that I am a Plagiary; a very heavy Charge furely: Yet had I, methinks, only (at that early time) translated or abridged that Author, whether with or without fuch new Opinion, I cannot perceive it would or ought to have been the least Reflection on me now; or even if I had found or taken any thing from him that was good, why should I not? Especially, since I there mention him with Honour and Regard, or even without criticifing on the Novelty of his Opinion. Yet any one who has his Eyes yet open, or a common Understanding free, may plainly observe, that I do not even there adhere to, or positively affirm or determine such his new Opinion, that principal and .- most remarkable Part of him, to wit, That of the Body of the Crystalline being intirely changed, and in the Operation is wholly beat down, or depressed, (which our Critic, and Translator of the faid Author, is so much a Stranger to) I do not, I say, either affirm it to be false or true, or so much as to determine, whether that or the former Opinion be the most just, or the most to be depended on. Nay, it is, I think, fufficiently evident, I give several Accounts of Cataracts, and the operating on fuch, together

to and from Dr. BRACKEN, on Farriery 35

together with the proper Observations on them. whether more fuccessful, or unfuccessful, which are entirely different from any thing in him, or any o-That there is likewise an Anatomical Print, as well as that of the Representation of Objects to the Eye, both which this Author is entirely without, not having any one Print in his Book. Account of the Anatomy of that Organ, as well as the Theory of Vision, being greatly differing from his, nor to be faid from him, or any other particular Author, much thereof being properly my own; &c. Neither has he any Thing relating to the Affinity or Communication of the Maladies of the Ear with that of the Eye; as in my Treatife; fo that the whole, whether good or bad, is on an entirely different Plan, and is, no doubt, from the Reasons observed, an entirely different Treatise, Upon which, nevertheless, I no way value myself, as I have already observed to him: But since he is here pleased to mention Monsieur Maitre-Jean, and that he acquaints us in his faid Farriery that he has translated bis Book, and added Annotations to it (which has even been offered to the Bookfellers, tho not fo readily accepted of) at the same time; I fay, falling on in the most violent manner, upon T-r, his M-O-st, and this noify Itinerant, possibly not over-able to make good what he had advanced, tho, for aught I know, he might even likewise be able to say something to this, now fo commonly known, (from the foresaid Author) yet whether he could or not, or whatever his other vain, audacious Pretensions may be, I will nevertheless (at least for the sake of Truth) sliew this rash Critic, that even this, which that forward blundering Person advanced (in that Particular) it was only an Opinion taken from Monfieur Maitre-Jean; and that our Critic, in thus abusing of him (in that Article) he thus consequently abuses the said honourable and learned Author, D_2

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36 Letters, Notes, &c. relating to the Eye,

Author, whom he pretends to have translated. The Words then of this very notable Translator and Critic in his Farriery, Page 109, are these, in the Operation of couching. But it is Folly • and Madness to imagine with T—r the Ocu-' lift, that the Crystalline Humour is quite turn'd out of the Cavity it makes in the Vitreous in such Operation; and that the vitreous Humour becomes convex in its place. I fay, this is (for Reafons too plain to be infifted on) talking more like a quacking empirical Fellow, than one vers'd in Opticks. And Page 15. he also says, — made • Dr. T—r imagine, that he turns the whole Bo-· dy of the Crystalline out of its place when he ' couches a Cataract.'—— Now, let us next then obferve the proper Words of Monsieur Maitre-Jean (whom this special Critic has translated, Page 99.) Dailleurs le Crystallin ne peut être détourné, ' qu'en même tems le corps vitré n'ocupe sa place, comme je le prouveray ci-apres, & ne forme une ' bosse ronde qui imite en quelque façon la super-'ficie antérieure du Crystallin.' --- Now without translating this for him, being he has, he fays, translated it (and a good Translation it is too) what then has he to pretend to, after feeing these Words fo very plain in that Author? unless it be that his Memory now, alas! greatly fails him But fince he has also given me a fresh occasion of looking into this same Author, it may not be amiss I now likewise hint, having neglected, or not obferv'd in my former Letters, what is mentioned in this fame Author, in relation to my mentioning the springing out of the Crystalline Humour, on the cutting of its Sacculus or Membrane: Words then are, Page 41. 'Je fends ensuite en quatre parties, avec la pointe de la Lancette, la ' membrane qui couvre le Crystallin, apres quoi le 'Crystallin s'échape de lui même.'— I might also mention

to and from Dr. BRACKEN, on Farriery. 37

mention out of the fame Author, to prove yet more fully his Opinion, spoken of above, in relation to Cataracts, as in Page 123, where he fays, Mais une alteration entière de tout le Crystallin, qui change de couleur & perd sa transparance, & que c'est ce Crystallin ainsi alteré qu'on détourne avec léguille. But now e'er we entirely finish this Affair of the Plagiarism, let us try a little how far we can turn the Tables on our notable Accuser. Let us now, I fay, make a short Excursion on the Afric Coast, without carrying our Resentment to the very Gates of Cartbage, or endeavouring the entire Demolition of that proud City, but rather to bombard some more modern small pyratical Fortress there. First, then, I shall wave the other parts of this Author's Treatife, nay even that of the Eye, only some little Part thereof, such as may serve as a Specimen of the rest; tho' I must in general observe, that he has not thought proper to take the least notice of a Horse's Eye in particular, or fpoke of comparative Anatomy, only to have such account of a buman Eye, as he thought would ferve his purpose. I shall then take notice, that altho' I was well persuaded that this Book of his was only a scanty Hotch-potch of the noted Authors (before him) on that Subject; yet I could scarce have imagin'd him to have been a shameless Plagiary, even of, or from him he had the Assurance to call so, or rather to downright pyrate bim (as Booksellers term it) for to be a Plagiary from him he charges to be fo, nay, even most shamefully to pyrate him, without owning it, is surely the Devil. Or for a 'fockey to steal a Man's Horse, and then pretend to fell bim to the Owner again (in an open Market) without at least disguising him a little, with a false Tail or Mane fasten'd to him. is certainly a most consummate piece of Assurance. I shall then observe, I say, that as I was well convinced he had made very free on this occasion with D 3 the

38 Letters, Notes, &c. relating to the Eye,

the Authors before him on fuch Subject, my Curiofity led me (on his calling me a Plagiary) to examine whether he might not have made fomewhat free with me likewise; more especially, fince, by his Letters, I could now pretty easily fathom bis Depth. This then engaged me to look into his Account of the Eye; which, I readily own, I no fooner look'd into, than I streight began to firink at the Thoughts of criticiling on the Faults contain'd in that part alone, or even to follow closely this so very bare-fac'd Plagiary, who had fo plainly filebed the principal part thereof out of my Treatise on the Eye; so that I could not think of troubling myself with the whole; and therefore (not to tire myself or Reader) shall only choose to produce a few Specimens thereof; after which, I shall leave the Reader to compare, or to fish out the rest, if he inclines it: For my own part, I do declare, I had not any longer Patience therewith. It is however to be remark'd, that here and there he has added a few idle Words, by way of disguising it somewhat; yet, for the Ease of the Reader, I have mark'd, or put most of such Words betwixt Crotchets []. First then, instead of a Horse's Eye, he rather chooses to give you the comparative Anatomy of a buman Eye. To begin th n, page 101, where as to the Pia Mater or Choroïdes, or both, being in the Inside of the Optick Nerve, that I allow to be bis own. Choroïdes (fays he) - from the Pia Mater or thin cobweb covering of the Brain, which is expanded all along the Inside of the Optic Nerve, and terminates in the Choroïdes. Having allowed this then to be bis, let us next observe that which I own to be mine. Page 110, (of his last small Edition, 1738) he goes on in this manner, speaking of the vitreous Humour, - 'It is spherical behind and in its Middle (this 's spherical behind and in its Middle, I must yet still 'allow

allow to be his) before, it is concave, [+ or hollow] and in the Cavity the Crystalline Humour lies. Whereas I say in my Ophthalmographia, page 16. it is spherical behind, and in its middle before it is concave, in which the Crystalline Humour lies .--Then he goes on; 'The Vitreous is a transparent Substance, not so hard as the Crystalline, or so fluid as the aqueous [or || watry Humour] and it feems to be nothing elfe, but a number of delicate little Vesicles [or Bladders] full of Water: for, in touching, it is always moift and waterish, and, when cut, the [Mixture] flows out more aabundantly; or by rubbing it betwixt the Palms of [one's] Hands the Water comes out, [and to fuch a Degree that it will appear nothing but a Membrane, [s or thin Skin;] and by obser-' ving with a Microscope [or 6 Glass, commonly called a magnifying Glass,] when [7 it is] cut, 'you will [8 observe] many little airy Bubbles to 'arise from it; but, being dryed, it evaporates [9 or flies away,] and this delicate membranous Body [10 feems] almost withered to nothing. f [11 The] use [12 of the vitreous or glassy Hu-'mour] feems chiefly [13 defign'd] to keep the • Crystallin at [14 a] proper Distance from the Retina, as I shall [further explain] in speaking of Vision.' Admirably well indeed! Whereas this last Expression is in mine, page 17. as I shall shew in speaking of Vision. Thus I must also own the rest in a manner verbatim to be mine, unless where confounded with fuch filly impertinent

⁺ This (or hollow) is his Note or Explanation of Concave. Another Note, or Explanation of aqueous. Another Explanation. * Here is an admirable Mixture, I wish he had notify'd of what; in mine 'tis Moisture: Nor is his an Error of the Pres, fince so in both Editions. 3 One's Hands, for your Hands. 4 Addition. Explanation. 6 Further Explanation. 7 Addition. 9 Observe, for fee. 9 Explains evaporate. 10 Seems, for is. 11 The, for its. 12 Addition. 13 Addition also. 14 Addition likewise. D 4 Words

40 Letters, Notes, &c. relating to the Exe,

Words as are mark'd with the Crotchets, which will be more observable in comparing mine with his. After running on then with a Rigmy-roll Digreffion to the Jockies, he again proceeds, '[15 The vitreous or glassy Humour has a very fine and thin · Membrane [16 or Coat] with which it is cover d. • This Membrane is adherent [17 or joining] to the Ligamentum Ciliare, and no doubt has its Blood-· Vessels, as well as the other Membranes of the Body, which must be nourished by Blood-Veffels [18 from thence] altho[ugh] fo fine and fmall that they are not to be feen feven with a Microfcope;] yet this need not feem strange, when we consider, that those of the Cornea, [though] they are much larger, are not to be feen till they become turgid, [or swell] in an Ophthalmia [or Inflammation of the Eye or even those of the tu-' nica adnata [or White of the Eye,] 'till inflamed, as I have faid. [Now,] whether [there is any] Communication between the vitreous Humour and the Crystalline, is what [:: Anatomists] cannot determine: But this is plain, to wit, that its Membrane or Coat is not only continued or adherent to the Ligamentum Ciliare, but likewise to the Tunica aranea, or Membrane which immediately covers the Crystalline Humour.' - Now, without troubling my Reader with any more of this kind of Anatomy, let us just peep into a little Specimen of his Theory of Vision likewise; more e-specially since, as above, he tells us, he would further explain bimself in speaking of Vision. Page 113. he fays, "19 It is not my Design at present to

¹⁵ Additional Improvement, for it; fpeaking of the same Humour.
16 Explanation of Coat, for Tunic. 17 Explanation for Adherent.
18 The Words transposed for the worse, leaving out as also the little Vesicles. Thus then the rest of the Description of this Humour is in like Manner, as is mark'd with Crotchets, without surther Observation thereon. :: In my Book it is, is what I cannot determine.
19 My Words are, page 22. I would not have the Reader

to and from Dr. BRACKEN, on Farriery. 41

write a distinct Treatise upon Opticks, but only to shew the Reader so much as is necessary to shew are no doubt a fubtil Fluid that moves quick, and is continually emitted from the Sun or luminous Body; its Motion may be observ'd by the Reflection on folid Bodies, and the Refraction it 'has in passing through a dense medium, such as Glass. Light, tho of extremely small Particles, according to the Demonstration of 'Mr. Romer, from the Eclipses of Jupiter's Satellites, finishes its Progress from the Sun to this Earth in about ten Minutes of Time.' - Here he recommences the same Section again in mine, faying, -- 'Light then is that materia subtilis fent from the Sun or luminous Body in Lines or 'Rays, commonly called Sun-Beams; + and thefe coming with fuch incredible Swiftness, [and] meeting the Eye, (page 115.) properly and wonderfully disposed with convex and diaphanous Mediums, the better to receive [fuch Rays] cannot but strike very sensibly upon the fine medul-'lary Fibres of the Retina; but whether it be * communicated to the Soul by Undulation or Vibration, t is what I shall not pretend to deterf mine.' — I believe not truly. Well, in a word then, not to trouble and tire my Reader or myfelf too much, I shall only shew that he in gene-

der expect that I am to write a whole Treatise of Opticks, but only so much as may be necessary to shew how Sight is performed. 20 The very next Paragraph in my Book, excepting some Words here altered or lest out (for the worse) in the Beginning, is otherwise all the same. 21 This differs no way materially from my next Paragraph, unless to turn Monsieur Romare into an Englishman, viz. Mr. Romer. + Here, after a little transposing, as we have said, he goes on in a manner verbatim to the End; ‡ only here is omitted, To make the Impression called Light; which renders it better Sense, or more intelligible. But then surely the Reader must allow, that such

42 Letters, Notes, &c. relating to the EyE,

ral runs on in much the like manner in the rest of his Account of Vision, as those who are any way defirous will observe, on comparing his with mine. I shall here then only a little further hint how the following Sections begin in the forefaid Page,-The Eye may be confidered as a Camera obscu-* ra, or dark Chamber, [to make which,] shut the Doors and Window-Shutters [of a Room very tight and close, fo as no Light [be admitted] to come in, but by a small Hole in one of the Shutters.' The next goes on in like manner. - 'Thus it would do upon the Retina, altho' there were no Humour [in the Eye,] neither crystalline, vitreous or aqueous, [no,] nor even the Cornea. - And the following Section begins, For example, a Lens [or spherical Glass] we f may suppose to be the crystalline [Humour] behind the Pupil for Sight of the Eye; I fay, fuch Glass, being placed betwirt the Hole and the Paper, will make the Rays converge. -The next, being page 116. 'If the Lens or cry-' stalline Humour be too far from the Paper or Retina, the Rays will interfect [or cross one another] before they arrive there, and afterwards come divergent for difpersed] upon the Paper; fo that, —' N. B. He, in the following Section, also speaks (as I do) of Presbitia and Myopia, for which Maladies in Horses, 'tis to be hoped, he will contrive and find out a proper Method of relieving them, by the wife Use of convex, or concave and meniscous Glasses, according to their different Occasions; for which, I dare fay, there is

a well-remodel'd, and well-explain'd Theory of Vision as this, is sufficient for a Horse. || In a word, excepting such idle Variations, as may be observed by the Crotchets, it is all the same as in mine, which he has most servilely sollowed; only that sew would allow Spectacle-Glass to be either Lens, or like the crystalline Humour in its Form. The rest of the Paragraphs

to and from Dr. BRACKEN, on Farriery. 43

ne'er a Jockey, Gentleman, or Lady in England, but who will be greatly pleased therewith. But now it seems high time I should finish these my Notes on Plagiarism; and, by what has been said, it may be observ'd how very | free he has made in pyrating, or borrowing my Labyrinth of Words when it suits bim. Well, and was this then without reading of my Book? Surely this is reading it with a witness, more likely a getting it by beart too. And is this then all the Thanks we are to receive? Such Ingratitude certainly is even worse than the Sin of Witchcraft. In fine, he finishes this Letter, by telling me, 'That I had just as much French as to become a Plagiary, which (fays he) was far enough for H. Bracken. Yes, truely; I think, it was full enough for him indeed, as appears by what has here been remark'd of his understanding and translating of Maitre-Jean.

As to our Author his Account of the Diseases of the Eyes of Horses, which I have now, even as yet, inclin'd to peep into, so to observe on that Head what further he might have glean'd or stole from his Neighbours, or what Improvements (in that way) he himself might have made. I only then in a few Words remark, That the the principal part thereof be taken from the Books of Farriery of Gibson, Solleysel, de Grey, &c. which, together with his own Observations thereon, makes up such a very poor miserable Account, as not in Reality to be in the least worth our, or the public's notice: As to his use of powder'd Glass in the Eye, which, fays he, may be compared to the Fish-skin used by Joyners in smoothing up their Work; for as this smooths and polishes the Wood, so does that the Cornea; — and with Safety too, as I have often

graphs run on much in the like manner. || He observes indeed Life is short, and so must write fast; yes, surely, this is the quickest way,

found

found by Experience. I need only in short then say. the Medicine and Comparison is quite stupid: To polish a diseas'd, a live Eye, like a Piece of Wood. most monstrous! And if he has even seen a particular Part to do well, or a Person to recover after mad Practice (as frequently happens) what then? As to L. Calamin and Tutty, they have other Qualities than those of the cutting indissolvable Parts of Glass, the bad Effects of which last in general is eafily comprehended. As to his Affertion of Horses being only subject to a few of the Maladies incident to human Eyes, I am well fatisfied they are subject to most or all of them, squinting excepted (from the Situation of their Eyes, &c.) on which Disorder therefore he dwells the longest, and holds forth the most learnedly.

and and an an

A RECEIPT; or RULES, for the Use of Dr. BRACKEN, when he comes to Town, his Friends, or others, who want to be instructed in the Grand Nostrum of becoming Eminent in Physick, even though without the Benefit of the Travelling Foundation.

Industry and Force with the Interest of some Prastitioner in great Vogue, be it Physician, Apothecary, or Surgeon, by means of such his nearest female Relation; who, if well provided with a full Dose of the Aurum potabile, to be drank as a proper Vehicle, our Prescription will thus prove still more successful, tho' it may do without. After which, let him choose to keep Company with those of the Profession, more especially Apothecaries. Be also very well, nor begrudge your Time with Midwives,

wives, Nurses, and all other notable good Doctorifing Women, as well as to be often with all forts of ailing Men, Women or Children. The more rich, luxurious, intemperate and irregular they are, so much the better, since they will thus ever be entertaining you with their Ailments, frequently fending for you, &c. Be fure then to cultivate this kind of Friendship chiefly, and spend much of your Time with fuch; prefer them, and their Friendship, to all other Acquaintance or Friends whatfoever. Nor idly spend your Time with the wife and temperate, there bing very little or nothing to be got by 'em; and confequently it is but lofing Time the affociating with any fuch, fince commonly the more foolish, the more irregular, and with those therefore the greater Likelihood of Gain this way. Begrudge not then to spend your Time and Life with them; neither ever fail your Patients, nor neglect to order them a sufficient Variety of Takeables, more especially since you will thus be judged of to be the most knowing, besides their being still better contented the more they have for their Money: so for the same reason write still, if you would touch the Fee, lest they suspect you begrudge your Labour; for Words, being but Wind, (tho' e'er so good) can have no real or intrinsick Value. Be ever in the Way, by Night, and by Day, still within call, always on the watch or catch for Bufiness. If not at home, or with Patients, surely to be found at the proper plying places. Neither spend any of your Time (out of this Way) in unprofitable Diversions; let it rather be in caballing with those of the Profession, and playing all the Game to each other's Hands, according to Interest; consulting principally with such who have the greatest common Vogue, and the most Customers, because, in return, they are the likeliest to do you the most Service in this way, besides the giving you

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a good Charaster to your Patients, allowing you to be a Person of some Knowledge, in your Profession when you thus use them. Fail not likewise to make as much Neise in Town as you possibly can, so that your Name may be sufficiently, and often enough heard of, which is balf and half, if not all in all in this Metropolis; it matters but little for what; whether for Success in Practice, or otherwise. Mankind readily are the aptest to make choice of him they have the most frequently heard of. A Sufficiency of Show and Assurance prove also pretty useful; and Forms in this way are of far more Use than real Skill. The attaining likewise to the good Graces of some Personage in great Power, whether Male or Female, has of late Years been of no small Use. Let your only Thought, Pleasure and Satisfaction, be that of getting Money, even the' the D-l should run away with it at last, or use it for you when you are dead. Let your Fingers be very gentle in touching the Ecclesiastical Coin in general, for reafons best known to us. Be always sure to keep well with those who lead your Patients by the Nose. As to your great Knowledge or Improvements in this Profession, that feems not to be fo very material, or scarce indeed of any Use; probably, the less the better, since the less you know, more blundering on you go, and still with more Assurance too. Thus, the less effectual the Cure is, the more they ever will be ailing, and confequently the most Money will be got, and so in course the more eminent you will be: Besides, that they are the most bonour'd, valu'd; and respected, who are always wanted; for entirely towatch and follow Nature, and as foon and plainly to affift ber, in her own natural Way, with what the requires only (is quite wrong) there is little of nothing got that way, there being neither much Honour nor Profit to be gain'd thereby, (particularly the latter) or by that of knowingly putting the

the Patient at once into an easy and effectual Method of Cure, so to recover him foon and thoroughly; being that is but flightly rewarded, and as foor also, and as readily too forgot. If they are always wanting you, they ever venerate you, and the longer they have been ill of their Ailments, the more overjoyed at last they will be of their Recovery, and the greater Cure they will readily conclude it to be. Thus Nature, whilst yet sufficiently strong to overcome a Fit of a Maladie, even in spight of blundering with improper Physick (so profitably prolonging a Maladie) being nevertheless thus most wonderfully and miraculously recovered by kind Dame Nature, who still remains able and sufficiently strong, even to get the better both of Physick and Physician, the Cure is however still ascribed to them; and when otherwise, the Patient, even at worst, does but make his final Exit, for he can die but once, being then fecured from becoming a Patient, to a Rival Brother. Observe then this Recipe or Rules strictly, and assure yourself it cannot (at present) miss, not only of acquiring you Practice enough, but even also a most laudable Degree of Eminence. Probatum est.

The getting into eminent Practitioners Houses on the Death of such, or that of making Interest for an Hospital, seems hardly necessary to be added; or even that of the writing of Books on Religious Subjects, Poetry, or Mathematicks, &c. as being full as useful in this way, as the writing of Physick, and so may even also (for aught I know) that of the writing of Farriery; neither seems it any way needful I should recommend the great use of the Charlatanic Art, so very well known.

N. B. This odd jumble of a Mixture (even worse than Theriac) never set easy or well on my whim-sical squeamish Stomach, the most plain and simple means still agreeing the best therewith; yet to pretend

A Receipt, or Rules, &c.

pretend to acquire the most Money, or Eminence, by doing Business the most easily, would, I doubt, be a pretending to find out the Philosophers Stone.

Reformar in Oggi 'l Mondo; E una cosa d'en Tisichire Egli gia è satto Tondo, E cosi, b'a da sinire. Proverb Ital.

The Reader may possibly pardon my attempting the following Lines, as an Exception, to the forementioned General Rule, or Common Proverb.

Questo Tempo, si Giocoso, Non sara maraviglioso, Reformare qual che cose, Co'le ricchezzè del Potose.





SHORT DISCOURSE

Dr. Porterfield's Motions of the Eye,
IN THE

Edinburgh Medical Essays.

The Nature of Cataract's being here explain'd, and former Differences in Opinions thereon are reconciled; together with the Use of these Parts, &c.

TAVING look'd into the Medical Essays printed at Edinburgh, (for which the World is much obliged and indebted to that industrious and benevolent Society,) I there particularly took notice of two Theoretic Discourses on the Motions of the Eyes by Dr. Porterfield; and as that contain'd in them has some fort of Affinity with what we before have been speaking of, so I have not judged it improper here to take some Notice thereof. I cannot however at the same time omit observing that which a learned and ingenious Friend of mine, Dr. Adenbruck, used frequently and facetiously to ask me, to wit, the Reason why those of the North part of this Island gave us so very much more Theory than Practice? I am now however glad to see that the principal Part of these Essays relate to Prac-To go on then methodically, or narrowly to

50 A Dissertation on Dr. Porterfield,

examine the two foresaid Discourses of the Motions of the Eyes, which might, methinks, almost bear the Name of a Theory of Vision, being so very long also, that it would, I doubt, make a Volume at least as big as a Church Bible, did we propose to dwell on every Part, fince Observations and Answers, with Ratiocinations, do commonly draw out to a vastly greater length than the Originals; fo that a longwinded Theory (especially if wrong) requires too much Time for any one in practice, or any who knows well how to imploy his Time otherwise to the best Advantage. This same Author Dr. Porterfield acquaints us, that he has hardly Time to go on thus sufficiently to compleat his premised Sug-gestions, because of other Business, &c. and those consequently in the like State will be as much fraitned likewise to consider, or to answer them, if he should take that Trouble, and that they proved uncertain, &c. But this Author is pleased to give us a Hint at the End of his fecond Discourse, which appears to me, I freely own, not a little furprifing, that is, his Apology there, for Defects and Mistakes, which (fays he) could not so easily be avoided, considering the Hurry in which it has been written. This Speech, methinks, is by far too much, unless the Doctor judges that the whole World are blind, and can neither see, or by any means distinguish which are the most bighly laboured Performances, and which are quite the contrary. Now the most knowing do all readily agree, that they have hardly seen more elaborate and more finish'd Pieces than these are, whether right or wrong, is not so much the immediate question. Had such Excuse then come from any very great Practitioner, on obliging the World with his practical Observations, there might there have appeared some reason for it; but not fo in one who most carefully applies himself to produce a deep studied Theoretic Performance, not ſq

fo highly necessary: or can he yet imagine Man? kind so very stupid, as that they are not able to see that these Pieces must first and last, have cost him a great deal of Time? since such finish'd Productions are not to be perform'd without it. He fays well indeed, and I do verily believe him, that he bas not time to go on with fuch, if he proposes also to go on in practice; since I am fully satisfied they must have cost him more time than I here incline to mention. Can he then pretend to alledge, that his strictly and thoroughly examining all manner of Writers on this Subject, as not only many of the most learned Practitioners in this way, whether antient or modern; but even all the most accurate Anatomists of our time on the like Subject, whether buman or comparative, (without omitting to confult the Beauties of the System of the ingenious Mr. Chefelden) at the fame time carefully consulting the most noted Philosophers, Mathematicians, or Opticians, both before; as well as in our present Time; of all the best of which, few or none have escaped bim; no more than the Observations of those of the Royal Academy at Paris, or them of the Royal Society with us? Is then the examining, quoting, and the digesting of our Thoughts on all these, the drawing of methodical Conclusions, Demonstrations, mathematical Figures, Corollaries, &c. to be done in any hurry? or ought it so much as to be pretended to to be done by any reasonable Person? Surely few are ignorant of the Labour and Time fuch Affairs are done with: Besides that, the World might indeed with a good deal of reason blame a Society, who would over-hastily, or in any burry publish the very best, and even the most elaborate theoretic Dreams, tho' also accompanied with the Authority borrowed, or even tho' taken from the greatest Authors; yet much less would they (or ought they) I fay, to publish them with-

52 A Differtation on Dr. Porterfield,

out due Examination, believing them to be any way imperfect. Is it to be imagin'd that any Society of Men of Learning and Knowledge, who take upon them to publish such Accounts to the World, will fuffer what they any way suspect (or imagine) to be either idle, imperfect, and incorrect pieces, so to pass their hands, and thus produce them to the Public with their Names thereto, it being their own Credit, that the Productions of every particular Person appear on publishing, as it ought to do. Nay, does not the very Title-page of this Society bear the like Insinuation? acquainting us, that such Essays and Observations (are) revised and published by them. What then has the World to do with the Author's pretended burry in writing them? Nor would this same so philosophic and mathematical Gentleman certainly aver, or endeavour to have us believe, that he writes his elaborate finish'd Papers as fast, or in a burry, as commonly weekly Writers do their News-Papers? Neither is this the case; nor is there any blame * on the Society for having published this: as, no doubt they have with a great deal of Care, for which (as faid before) the World is oblig'd to them, as well as to the Author, for his faid Performance. But then, I fay, there appears to be no room for any fuch Apology, or any just Excuse for the Author (his being in a hurry) if any just Faults should be found therein: And I cannot but at the fame time add, that it is furely a very great Advantage for any Author's Works to be publish'd under the Eye and Care of fuch a learned and knowing Society. And it being thus in some measure their own, it may, in such sense, partly be look'd upon as their

^{*} Neither is any such Society in the least chargeable for giving free scope to an Author's Opinion, if any way plausible, as this, indeed, hath the appearance, to those who do not so narrowly examine it, which such a Society is not so precerly obliged to.

joint and publick Work; and as such Performance is not to appear until approv'd by them, so every one judges it his interest to correct it, or to add bis Mite for its further Improvement or Embellishment, for the common Good of the Society. And so each Member, I say, who has the Care of revising and publishing such Productions, do readily enough contribute their own Lickings, and Trappings, for their own Sake and Credit. But, alas! it is far otherwise, and greatly different with any private Author, who has no such Advantage of his Works being revised, corrected, or published, by any fuch Society, or who has not indeed any one that can properly, or at least who will disinterestedly affift him, as finding, or judging it not to be their Interest, having no Share therein, &c. fuch a case, I say, then, what is there to be said, or rather what Faults indeed are there not to be excufed in any fuch private Author? But, to proceed with our present Author under our Consideration, I shall not, for the Reasons which have already been observed, minutely enter into the Examination of the Parts in general of these so very long, elaborate and learned Essays; more especially, since most of what is therein contain'd, seems rather to be matter of Speculation and Curiofity (or to produce the Writer's Learning) than any way greatly relating to the practical part: Nevertheless, lest some part thereof, I say, or its Knowledge, should fome how more particularly and immediately be judged necessary to the practice, I shall here con. tent myself a little to consider the grand Affair, or feemingly the principal Discovery, the great drift of the whole Performance; and this appears to me to be that of the shortening or lengthening of the Axis of Vision, for the greater perfection of Sight; which Εæ (if

^{*} Vide Letter to the Booksellers on this Subject, of the Difficulty of having an Author's Manuscript well judg'd of.

54 A Dissertation on Dr. Porterfield,

(if I mistake not) he principally or solely attributes to the use of the Ligamentum Ciliare, which he considers as a Musele sufficiently fit and strong to perform this great Work. I shall now first then remark, that tho' he has been at great pains in examining the most subtile Anatomists, or Observators, yet that which some one only observes in any such way, (and not thereafter observable by others) ought not, I say, to be of any very great weight. Lewenboeck could fee and discover what no Man else ever could besides him, it is not a sufficient Proof to me (because he afferts it) that it therefore is so. I shall next then observe, that the Generality of Writers on these Subjects (to the great misfortune of Mankind) is, that the one is very learned in the Mathematicks or Opticks, yet knows but little of the Anatomy, and probably still less of the practical Part; so this kind of Writer will be fure to stuff his Performances with a full Sufficiency of the mathematical Learning, without being able to give us any thing material in the other Way. nother, whose principal Knowledge lies in the minutest parts of Anatomy and Philosophy, will be as fure to fupply us with as large a Sufficiency of these; and he who deals only in the Theory of Physick and Surgery, without the other Helps, is as fond of pushing his own new-form'd Opinions forward; whilst he who knows nothing but Practice, has not the least regard to either one or t'other, despising all, and obstinately running on in his own blundering way; and as little capable of instructing of Mankind, or giving the World any tolerable Account of what he does to any purpose. Thus there are extreamly few who have a Sufficiency of each of these, or so much only as is absolutely necessary to form a clear and distinct Notion of the Maladie, or what they are about, in this way; and certainly not less neceffary

ceffary to the more general Knowledge of fuch Maladies as may have any Affinity therewith: And confequently still more rare to find one sufficiently accomplish'd and knowing, not only in these, but also in fully understanding all the other Maladies incident to human Bodies: without which due Knowledge and Understanding, it is I am perfectly persuaded (from the Connection and Change of one Maladie into another) absolutely impossible to understand any one well. I shall not here judge it needful to dwell on the Opinion of this Author, or any other, of that of the first Mover in us, acting without our proper Will or Knowledge: Or what Muscles they be (with Origin and Infertion,) which are moved without our Will and Knowledge. Tho' it would not, methinks, have been improper on this Occasion to have determin'd to us, all such which are so acted upon; as well as some Reason for fuch Affertion or Conjecture, why we should not know of the Motion of any one fuch Muscle or Muscles, as well as that of others, when we incline it and attend thereto *. Now if it should be alledged, that it proceeds from the difference in Structure of one from t'other, it would then at least remain to prove, that it is fo: Tho' even that, I think, would hardly be sufficient. But to proceed to the principal Argument, to wit, that of the Ligamentum Ciliare its being a Muscle, &c. which serves to bring forward the Crystalline Humour, and suffers it again to go backwards; according as the Objects are nearer to or further from our Eye. Upon which I shall first then observe, that I do not by any means pretend to advance, that because Muscles are in general of a red Colour, that the Ligamentum Ciliare therefore (if a Muscle) must necessarily also be so; which Dr. Porterfield seems to be at some pains to confute.

* N. B. I diffinguish betwixt muscular Fibres or their Motion, and that of a proper Muscle; and even that of the Heart so forced upon by the continual Influx of the Blood.

56 A Differtation on Dr. PORTERFIELD,

But then, at the same time, I would put bim in mind that all Muscles having such Uses, as he supposes this to have, to wit, the drawing of the Part where the Insertion is towards its Origin. So, I say, as all Muscles in general have their Origin and Insertion; fo also they have their Belly or Bellies, being the thicker Part: which Belly or thicker Part contains the groffer Fluids, those of the more fubtile Nature, secend from the former, being in the Origin and Insertion, that is, in the two Extremities. And from hence, I fay, the Belly or thicker Part will not only appear less transparent, or more coloured, but being a thicker Body, must likewise become more visible *. Now tho' we can very well determine the Origin of this Ligament or Muscle, as he inclines to have it, yet he nor any else, can positively ascertain where its Insertion is or ends. Nay, its very Action, according to Kepler and Plempins, is quite different from what be afferts it to be; and its Origen, according to them, must be where he would have the Insertion, that is, towards the Crystalline or Vitreous. Thus Plempius, says he, ascribes the Discovery of the Use of this Ligament, in changing the Conformation of our Eyes, to the celebrated Philosopher and Mathematician Johannes Keplerus, of which Anatomists need not be ashamed, it being only from mathematical Principles that the Necessity of any such Change was ever discover'd. Now what the Necessity of this Change is, even tho thus taken from mathematical Principles; or, more properly, the Use of mathematical Words and Forms, the more pompoully to introduce and prove their own, dear, fondling, imaginary Notions; whether, I say, there be any such true Foundation or Reality, either in this Opinion of the celebrated Kepler, or even that of the present Author

^{*} Yet whether all Muscles have or have not so distinguishably a Belly or thicker Part, is not greatly material to what follows.

Author under our Consideration, is what we shall hereaster more fully examine. The Author before us, does, indeed, properly enough observe the Fallacy of such Ligament or Muscle acting in the form and manner supposed by Kepler and Plempius; but then it seems as plain and evident, that he borrows his Opinion from them, tho he gives the same Muscle or Ligament just the quite contrary Power and Direction. Thus the Doctor seems inclinable to turn the Tables on them, and by

way of Opposition to take it the other way.

But now I am a little inclined to observe, that fince fome of our most accurate mathematical Writers have been fo obliging as to prefent us with their so very valuable Calculations, of the Strength of each Fibre in particular; and so have as learnedly calculated the Power and Force of every such Muscle composed of the whole number of its Fibres. I cou'd, methinks, wish that this or some such learned Person had taken the trouble of calculating for us, the Power and Force of this Ciliary Muscle; fince for my own part, I must very freely own. I am of opinion that it is not of any fuch Strength or Power, so as to be able to perform any such Motions as is afferted, either by the one or the other: Tho' the latter, no doubt, as affirm'd by Dr. Porterfield, seems to require the lesser Strength, and feemingly the more rational Supposition of the two; as that by fuch a Motion it naturally would thus incline more to draw towards its Origin. we should have the least Regard to the Assertion of the much reputed Professor of Anatomy Row, mention'd in my Ophthalmographia, of the Circular Sinus round the Edge of this Ciliary Process, as he observes in the Eye of a Cod-fish, containing a serous Humour, &c. This, I fay, must I think of course absolutely destroy any such Opinion as that of its being a Muscle. But now to advance as yet a little

38 A Differtation on Dr. Porterfield,

tle further, to try our present Author's new Doctrine. as well as that of the original, mathematical, miologistic Opinion of the celebrated Kepler, and that of his Follower, the renown'd Practitioner. Plempius, by the Touch-stone of practical Observation; we shall find then, that on our bringing it to this Test, all such who have been couch'd of a Catarast; and who, according to our present Author Dr. Porterfield's Opinion (as mention'd by him in the medical Effays) this of the beating down of the Crystalline Humour, now the most general and common received; in this Operation the Ciliary Ligament or Muscle must necessarily thus be all tore to pieces. Yet the Sight, at the same time, seems no way to fuffer from any fuch Violence; excepting for the Defect of the want of this Lens or Crystalline. manner of Vision still remains in the same State as before, which cannot then have any more any elonging of the Globe, or lengthening of the Axis of Vision, by the Use of the said Muscle. Now were it as these Authors do suppose, or affirm, that this Ciliary Muscle is so absolutely necessary for Vifion, those Persons who are couch'd would always have fuch a very confused, indistinct, and imperfeet Sight, as that they would in effect still remain blind. Nay, they could have no such Use of their Sight (fuch as it is) as those who have never been couch'd, (from a Deficiency of this Muscle, serving, as is faid, for the Elongement of the Globe, or that of the Axis of Vision.) Whereas, I say, they use their Eyes, have their Sight, and see Objects as others do, who have undergone no such Operation, baiting the other Defect before observed. And fome who have been couch'd do recover their Sight fo very well after this Operation, that it is very little, (if any way) inferiour to those who have never had any fuch Maladie. The Lady Ruffel, I remember, who had been couch'd by Monsieur Gerard, told me,

me, that she had her Sight so very well after her being couch'd, that she could very well see to read, without the Use of Spectacles, and continued so to do, even when much advanced in Years. Which is, indeed, still a retaining the Sight in a manner, or very near full as well, as those who never were afflicted with any such Maladie, and who have a perfest Sight. However, I must at the same time as freely own, that I cannot be of Opinion, that in this or some such like Cases, where there is still so very great a Perfection of Sight remaining, which happens so very rarely; that when it does, I do not think that the Crystalline Humour is in any fuch Case depress'd, or any way beat out of its proper However, this is my private Opinion, (which our present Author, after what he has laid down, is not to use as a sufficient Authority;) I am, nevertheless, at the same time of Opinion, that it is the Crystalline Humour which is usually and generally depress'd or beat down, in that Operation; of which, together with my own particular Thoughts on that Head, I shall more fully treat of hereafter. And shall, for the present, more immediately confider it, according to his, and the now fo common received Opinion, of the Crystalline Humour being depress'd, in all such as undergo this Operation. Now if inquir'd how, and in what manner this Ligament or Ciliary Muscle must necessarily suffer, fo as to be torn to pieces? We have then already observed, that the Insertion of this Muscle according to our Author's best Account thereof, appears to be pretty uncertain, and altogether undetermin'd: However, it seems as plain, that considering it as a Muscle, one part of its superior Side and Infertion, must run to the very Edge of the Lens or Crystalline; where, forming a kind of Aponeurosis, is there seemingly divided into two most delicate Membranes, which necessarily form the Cap-

60 A Differtation on Dr. PORTERFIELD,

Capfula or Tunica Aranea that thus envelops the Crystalline Humour. Now as to the undermost side, and Infertion of this Muscle; which our present Author the Doctor is principally pleased to take notice of (as best serving his own proper Scheme and Purpose) this part, he seems most inclinable to insert some-bow and some-where, into the bollow of the vitreous Humour. Page 197, his Words run thus:--For the Fibres composing this Ligament or muscular Process do not run in a straight Line from their Origin in the Choroïdes, to their Insertion in the Edge of the Crystalline, but by their Inflexion form a Hollow beyond which lies the vitreous Humourand therefore when they contract, this Concauty will become less, and the vitreous Humour will be compress'd; which therefore must, by pressing on the back of the Crystalline, push it forward. ——Supposing this then to be the case, let us a little examine and consider how this Matter will stand, on performing of the foresaid Operation; in which case, I say, the Crystalline Humour being depress'd, or beat out of its proper Capfula, Membrane, or Bag, the upper Infertion of this Muscle must necessarily be torn to pieces; and it is highly probable, at the same time, that the very Middle, Body, or Belly of this supposed Muscle is also tore; and consequently the Infertion in the vitreous must likewise be lost or suffer. And this Process or Muscle, must still more unavoidably be all rent to pieces, if we suppose or allow the glary Humour of this Maladie (by Monsieur Maitre-Jean, call'd the Accompagnement) to extend itself all along the Ciliary Process, even to its Origin, as it often happens; being fometimes so indurated as to become almost as bard as Horn, so as oftentimes to make the Needle (in the Operation) bend again: And on fome Occasions, so as hardly, if at all to be forced down. On such Extension then, I fay, tho' not fo very highly indurated, yet

this muscular Process, must in course on all such Occasions be lacerated, and quite destroy'd. Nay, even in the most common Case, where we allow a forcing or beating of the Crystalline down out of its place, and fo tearing of its proper Tunic or Membrane Aranea, it must probably, at the same time, , likewise often tear that part of the Insertion into the Vitreous, which our Author mentions, and lays fo great stress on. Now, besides all that is here faid on this Occasion, it may, I think, easily enough be perceived, that could we (or our Author) even imagine any part of this muscular Process so as yet to remain without damage, after fuch Operation; yet, even then, according to his own Doctrine, this Muscle behaved absolutely to become useless; because this Cavity of the Vitreous being now become convex (as he allows) the great and utmost Use, to wit, the Contraction of this Muscle, must be to no purpose. And now, although what has been here advanced feems to me sufficient to destroy our foresaid Author's Opinions, whether this of the present, or of those before him, who maintain this Ciliary Process to be a * Muscle: Yet as it may possibly be some further Satisfaction to my Reader, or our present Author, to say somewhat more on this Subject, particularly as to my own private Thought and Opinion of these Matters; I shall accordingly proceed as yet a little further on that Head. And tho' all I advance may not properly be faid to be positive and certain Demonstration : nevertheless, I endeavour to advance no further than what Observation, in the Practice of Maladies, Anatomy, or what the Nature of the Thing appears

In fine, being allow'd either to be a Muscle or a Ligament: If a Muscle, it cannot well do the Office of a Ligament on its Relaxation, to wit, that of keeping the Crystalline in its proper Place with the Firmness of a Ligament. And on supposing it a Ligament, if on such Motions of that Humour, this Ligament must readily be tore to pieces.

\$2 A Differtation on Dr. PORTERFIELD,

to me only to admit of. In order thereto then. I shall first remark, that Coronet or first part, and Origin of the Ciliary Circle or Process, the Sclerotica, with the Choroïdes and Retina, do there all meet and join together; it being here that the Fibres of their Membranes or Coats, seem anew to be reform'd, intermix'd, or a-fresh to be rewoven and remodell'd with one another, so as to create or make a quite different, or altogether new Form of Tunics; Membranes, &c. And thus, and from hence then it is, that the Cornea arises, that the Iris is also form'd or takes its Origin, with its inner Part or Uvea, the Ligamentum Ciliare, &c. Which last, I fay, plainly takes its Origin from this faid circular Coronet; and as the Choroides appears to be a Tunic, somewhat of the nature of a common Strainer, principally composed of Glands and Canals, so as to separate the grosser and purer Parts of the Blood from each other; so these purer Limpid; Aqueous, and more transparent Parts are without all peradventure, frain'd off, at this Coronet; part of which feems there, by the proper Openings or the Mouths of such Aqueous Duets (pretended to be feen by fome) thrown into that common Space (between the Cornea and Crystalline) ordain'd for the Reception of the Aqueous Humour, whilst some of the remaining part of this transparent Liquid is, at the same time, carried on or brought forward from the foresaid Coronet, in the most delicate pellucid . Tubes or Canals, which altogether form (together with the Vessels fit for the Structure or Nourishment of the membranous Part) that of the Ciliary Ligament or Process, now so generally understood under that Name. This faid Humour then being thus carried on in these Ciliary Aqueducts (as I shall take the Liberty of terming them) are possibly, if we any way credit the Affirmation of that most accurate Anatomist the Professor Row or Ravius, fielt

first thrown in or emptied into the circular Sinus running round the Edge of this Ligament or Process first spoken of or discover'd by him: Yet whether just thus or otherwise, it must it seems at last, according to all Probability, be emptied, and thrown into that Capfula or Bag, which contains the Crystalline Humour, that is, on or into the Crystalline, and betwixt it and the Tunica Aranea. And thus this membranous Part of that Ciliary Process, is either divided into two Membranes, for the Formation of the faid Capsula or Tunica Aranea; or otherwife, if we are more willing to suppose it only to make up one Membrane, it must then be imagin'd to pass over its outside (so to cover it) and then to return, by passing under it; and in like manner to envelop and make a Coat also for the vitreous Humour. But if we suppose it as before hinted, to wit, the being divided into two Membranes, we must then conclude, that the lower Part or Side of the faid Ciliary Process, probably also much of the fame Form and Nature, containing likewise its own proper Canals or Aquedutts, is in like manner to be divided into two or more Membranes; which two ferve to form the vitreous Tunic, and feem to be furthermore subdivided into an infinite number of Vesiculæ or Cellulæ, all of which are replenished or filled with the like Aqueous Humour (probably from those Ducts) which all together makes up that whole Mass or Body, we term by the Name of the vitreous Humour. This then feems to me, to be the Nature and Texture of this Ciliary Process, as well as in great measure, its common Use, and that of its serving likewise as a Ligament, for the -retaining of the Crystalline Humour in its proper Place, opposite to the Pupil. This then, I say, of the carrying on and the subsisting of these two Humours, with the proper Liquid for their Nourisbwent and due Subsistence, appears in reality, according

64 A Differtation on Dr. Porterfield,

cording to the best of my Capacity; to be the true Nature and Structure of these so very delicate Parts; too nice and minute for the Eye to be able to discover as we would wish, yet this is all my utmost Searches therein can discover, or that my Reason can impart. Now if this then proves to be the true State of the Case, it will plainly and evidently appear also, of what great Use these mathematical Principles have been, which are spoken of by our Author, in relation to the Necessity of any such changing (by the Use of this Ligament) the Conformation of our Eyes, the Discovery of Kepler, &c. But after what I have here advanced on this Subject, it will, I doubt not, be more fully fatisfactory to my Reader, that I should as yet add somewhat further on the Nature and Origin of Catarasts, not hitherto fo fully made clear to the World, being as yet still contested, &c. I shall then endeavour to reconcile all these Disputes, and thus strive to render the whole fufficiently clear, and I hope even to as to leave no proper room for any further Dispute. The Aqueous Liquid then, which we have before been speaking of, whether in the two foresaid transparent Humours, or that in its proper and common Receptacle or Aqueous Space behind the Cornea, however pure and transparent such Liquor is; vet nevertheless is, without doubt, secern'd from the Blood (as the other Fluids are;) being, without question, the thinnest and purest Part of the Serum; still in some measure retaining somewhat of that certain Viscosity so common to Serum, and not to be found in common Water. Thus then when the Blood is become vitiated, particularly being loaded with a Rheumatic Humour; that is, when the Serous Part of the Blood is become fizy, and that fuch Humour tends greatly upwards, or is much thrown up to the Head (often producing there, violent, shooting Pains, &c.) then it is, indeed, that the Eyes

Eyes come to be threaten'd, and at the same time also to be in great danger, particularly when much tending towards the Ferehead, and still more especially, when directly towards the Eyes. Thus then it is that the Blood in general, being more or less fizy, so this Aqueous Humour secreted therefrom, will readily be more or less liable to partake of the fame, or to have somewhat more or less of this gluey Humour fecteted therewith. And still yet more particularly and readily, as the faid fizy Humour is more naturally and specially carried to these And from hence then it will follow, that these so very subtile, fine, and most delicate Particles and Filaments, will thus arise, be form'd, and appear; tho' fo extreamly imperceptible at first; which shews it self in length of time, in the Refemblance of Smoak, Clouds, Duft, Cobwebs, Hairs, Threads, Flies, &c. which (in fuch case) no doubt, are in the Aqueous Humour and not in the Retina. as has been observed in my Theory of Vision. fmall Filaments then, coming from, or passing through the Mouths of those Vessels, the foresaid Openings at the Coronet before mention'd; which ferve to discharge or empty the Aqueous Humour into its common Place and Receptacle behind the Cornea: These said Particles or Filaments seem to be carried, probably, from all fides of this Coronet. and so creeping along the out-side of the Ligamentum Ciliare, and over the very Body and Out-fide of the Crystalline Humour, so as all to meet, and in effect thus to form or spin a most delicate kind of Cobweb (of this fizy Humour) over the whole Crystalline, or its Tunica Aranea, &c. and thus with time growing up and hardening, at last becomes, what we call, a Cataratt. And 'tis this fort which may most properly be term'd that of the membrancus Kind. And this is more particularly and fully proved from Observation in Practice; which is, that OL

66 A Dissertation on Dr. Porterfield,

on the Operator's laying his Needle only thereon, that is touching it in the very flightest Manner imaginable therewith, before it is come to be ripe and indurated by time, it immediately thereupon difperfes, and at the same time turns the whole Aqueous Humour turbid, (as is observed in my former Treatife.) Which is, however, in some time thereafter, that is to fay, in some few Weeks it settles to the bottom, or lower part of the Aqueous Humour, whilst the Crystalline, at the same time, becomes clear, and the Sight is recover'd, possibly not less than had it been couch'd when fully ripe, or fufficiently indurated; and, in all likelihood, is less liable to rise again, as sometimes happens after having been couched. Those of this kind are. I doubt, not the most fuccessful fort, and where the greatest Perfection of Sight follows on couching. And it is not improbable, that it might have been of this kind, that the Lady Ruffel's was; yet I am heartily forry to fay, that I am well perfuaded from Experience that fuch happens but very rarely.

It is fufficiently known to the Curious, that the Affair of the Opinion of Cataracts, whether it be in reality the Crystalline Humour it self that becomes viciated, or this of a Pellicula or membranous Substance, has been the grand Dispute for some Years. word, it has been proved with good Authority, (by each fide) on Diffection, to be the one way, as well as the other. Tho' the former, the Opinion of Monsieur Brisceau and Maitre-Jean, has, no doubt, more fully been so proved, because (as observed) it is the most frequent and more common kind, and confequently more Instances to be had in that way. From this then, which has been hinted, it may readily be perceived, that they will thus become liable to be divided, into the more kindly or flighter fort of Cataracts, and those of the more common

and less successful, as well as those of the more malight and most unsuccessful kind. Now; as to the manner how the other fort is form'd, it likewise appears as plain to me, that whilft as yet there is but a small quantity of this Size in the Blood, so possibly the larger Particles or fizy Flakes, are thus more easily floating along in the larger Canals or Duets, where they meet with the least Resistance: But the Blood being still more abounding with this glary Humour, both of the lesser as well as of the larger kind of such Particles; some of the more Minute, will. and do, in all likelihood, pass thorough those Ciliary Duets, (we have before spoken of) and are fo accordingly thrown into the Tunica Aranea, all over the Crystalline Humour; which is thus rendered opake. As this then but feldom or ever happens, without the other fort on the outward or fore side of the Tunica Aranea in the Aqueous Humour, in the manner and from such Reasons we have just been speaking of; so this fizy Pellicle or Cataratt, in the Aqueous Humour or Outside, lying commonly, I say, on the Aranea, is by Monsieur Maitre-Jean supposed to be, or called by him, the Accompagnement of the Cataratt. From all which then that has here been laid down, it will in like manner follow, that when the Blood is univerfally loaded with this Rheumatic Size, or at least, that flowing to the Head, and in particular towards the Eyes; it will then, I say, readily happen, that even the smallest Ducts * and minutest Parts will in this manner likewise be overcharg'd, and confequently thus filled with this unkindly Humour; and so not only the Crystalline; but even the vitreous Humour

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^{*} As those of the Vitreous are, probably, the most minute Ducts, so probably that Part may be the last which suffers, the Particles spoken of being first carried thorough the larger Canals; or otherwise from the more general Taint of the whole Mask

68 A Differtation on Dr. Porterfield,

also, in all its Cellulæ will be clogged and filled therewith; and by this means will become opake. In a word, it will thus become universal over all the internal Part of the Globe; a Maladie, for which there is no cure. Now, by all that I am capable of comprehending of these Matters, this kind is generally attended with great and * shooting Pains of the Ilead, if not also in the Forehead, and towards the Eye in particular. The second fort is sometimes, likewise, accompanied with more or less Pain; whereas the first and most laudable kind very rarely or ever are.

From hence then, it will be sufficiently observable, how very necessary: is, well to understand the buman Structure, and mat of the Animal Economy, as well as the Maladies in general, incident to buman Bodies; which, at the same time, plainly proves, I think, that it is not a sufficient Qualification for one who has dabbled a little in Eyes only, with Eye-Salves, and Eye-Waters; or even daring (though successful too) to thrust in a Needle, &c. to pretend or presume therefore to understand, and so to undertake the nice and difficult Task of remedying all the Maladies incident to this so noble and most curious Organ.

I might, 'tis true, proceed to shew, that this fizy or rheumatick Humour, is that which is, or forms, both Gout and Gravel, as well as the Stone; when falling on all the Parts common to those Maladies. So I might likewise more fully observe (were it not time to finish) that the Crystalline Hu-

mour,

^{*} N. B. After having writ this, I looked into Monsieur Maitre Jean, where I observed, page 133, he speaks of une Humeur Rhumatisante; but he distinguishes this from, cette Serosité acide amassée autour du Crystallin, & qui cause la Cutaracte. However, what this noted Author is pleased to observe there, on this Head, gives me no Satisfaction; but rather serves more fully to prove, or to convince me, in what I have here advanced.

mour, I fay, has even also been found to be petrified in its Capfula, as the Stone has been found, in the Bladder and Kidneys, as well as in the Lungs, and Gall-Bladder, or as chalky Stones have been found in gouty Hands, Legs, and Feet. So that in effect, it is still the same Thief, only appearing or breaking forth out of the Fabrick (or towards the extremities) from the different Parts thereof. How very necessary then such universal Knowledge must be, will easily and readily appear; and so (if I may be allow'd the Metaphor) to know, have, and properly to understand the true and just Use of the the Lord Chief Justice bis Warrant, for the duly following, fettering, or subduing such, in any Part of this Animal Kingdom; that is, the preventing and hindering this common Enemy from feizing, or destroying the noble or principal Parts of our Constitution, is what I must leave to the further and more mature Confideration of my thoughtful Reader.



F 3

SOME



SOME REMARKS

ON THE

Maladies and Operations of the Eye, &c.

ΙN

Mr. Chefelden's Observations,

(In his Anatomy)

On the Diseases and Operations of that Organ. And of some other Practitioners, their Practice and Improvements in Hospitals, &c.

Know not whether (in a great measure) I may not have been consider'd as one dead or a-sleep, these many Years by-past; whether from an Indolence, or some particular Inclination of innocently amusing my self, or that of being otherwise well employ'd, feems not much material to the Publick. However, I cannot but own that I think it is posfible to arrive at fuch Knowledge in this way; nay, even Physick in general, as the nature of that Study, and the buman Capacity will admit of; proportionably to that of other Arts and Sciences, tho' in itfelf not altogether fo certain. To which pitch any Person having attained, being a Man of Spirit, and having a general Desire or Thirst after Knowledge, (as most such have;) he then, as Conquerors thirst after new Conquests, so likewise does he in fresh Defires of Knowledge; which is boundless, and still more desirable the more pleasant and amusing it is I know not, I say, whether, during this my Quietude.

etude, some noEturnal or other Birds may have made a little over-free with some of my Feathers, to deck themselves with. However, I must now own, that on hearing the melodious Songs of a celebrated Nightingale, in the praise of his Eye Curer: Tho, I own, I understood him with the Knowledge roper to him, that is, with the Licentia Poetica Allowance: Yet the enchanting, warbling Notes of this melodious * Bird, I say, roused me more than all the Noise and Buftle of those of the College of or those of the S-ball, in running after our clamorous, vain, pretending Occulift T-r. I must, nevertheless, at the same time say, that to judge right, and truly well, fuch who pretend to make a proper Judgment of a Person's Knowledge in any particular Way, they ought to be more learn-

* As some have been bold enough to affert, that the best Poets have been blind, as witness Homer, Milton, &c. which, fay they, is proved by the Improvement of our Reason, when we are not diverted by outward Objects; that is, the internal Sense becomes better by the loss of the External, as not being so much diverted by the continual Use, and viewing of external Objects. Of which, if I mistake not, Milton somewhere makes some such Hint. Now, as our ingenious Author Mr. Cheselden, I well remember, used to be greatly given to Poetry, methinks it would be worthy his Enquiry (for the Benefit of the Curious) to know, or find out, what fort of Blindness it might be that Homer in particular was afflicted with; because, if it was that of the Cataract Kind, (especially of the proper fort) he then, as our Author observes, being able to distinguish Colours, could not so well be said to be blind; which you know would plainly prove that the best Poets were not blind, &c. But if, notwithstanding, that it had been this Maladie, they, nevertheless, have taken the Liberty to call him (tho' improperly) blind. Yet it would, I say, even in that Case, contradict the common Proverb, and prove that blind Men, or Poets, can, nevertheless, judge of Colours. Now, whether these things be sufficiently clear'd up by the particular Epithet given to such Heroes or Poet, that I know not. But if Homer's Case can be supposed as hinted, what pity it was, he had not a sufficiently approved Hand, so celebrated by him (or some noted Poet of those Times) accordingly to have couch'd him; even tho' the Oculist had been less celebrated.

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ed in that Way than those they pretend to judge of, or at least very near as much; otherwise they will not only be very liable to the being deceiv'd themselves, but by such means also most ready to impose on others. Being now then a little roused, by fuch relodious Sonnets, and the foregoing Letters, &c. I begun to shake my Ears, and to look fomewhat a-round me, fo to observe what Advances might have been made in this Way in this great Town, ever fince my writing the foresaid small Treatise of the Eye. I found, that my very ingenious Friend Mr. William Cheselden, appear'd amongst the first of that number; of whole Writing, in this Way, I freely own I had not the least Knowledge or Suspicion, until just now, on Examination of the last Edition of his Anatomy, that I undecesv'd my felf: his System or Observations of the Affairs of the Eyes being therein contained. I shall then only say, that in this last or fourth Edition, I observed large Strides towards Improvements in this Way, which were not in the first, or feemingly therein to have had any Thoughts in this Way; which, therefore, may also occasion the few following Queries on this Subject. Which I now even the rather choose to mention, being I understand he is upon publishing another Edition with great Additions; so that I choose thus to give him a fair Opportunity of answering these my Queries and Remarks in his faid new Book; or to correct fuch Thoughts contain'd in his former Editions, as he shall judge most proper, since I am no way on the catch, or to criticise for criticising sake, but merely for the sake of Truth, and the further Satisfi faction of the World in general; in which Light I hope he will consider it, and no otherwise, since Amicus Plato, &c. Nor ought we from Vanity, or any other views to differ, but readily to agree to the promoting of Truth: More especially, since !

in relation to the Eye, in his Anatomy. 73

would not only consider him as an old Acquaintance, but also as a Man of Merit. My Intention, as I have faid, is not criticifing for criticifing sake; fince I have always been of Opinion, that the best, most laudable, and most effectual way of playing the Critic on any Performance or Book, was to write a better of our own. Now, as I have already writ a Treatise on the Subject of the Eye, it may, I think, freely enough be allowed me to take fome Cognizance of fuch as any way treat of the like Subject, tho' they treat not thereof in any diffinct, or particular Treatise only, but accompanied with other Subjects. I shall not, however, pretend, or judge it any other way necessary, to make Observations on his General, Anatomic Work, tho' the other be centain'd therein; especially, since I never have publish'd any such General Work, whate'er I might once, or ever have intended. Yet I shall now, I believe, hardly think of any fuch Thing. Nor shall I even now trouble my felf, particularly, to criticife on all the Parts of the Eye, mention'd or omitted; or of such Deficiencies, Faults, or NegleEts on this Subject, contain'd in this faid Author's Anatomy; but shall only observe this in general, That it appears very strange to me, that he should have given us no distinct Prints of the Parts, either of the Eye or Ear, but only indistinct and very imperfect, short Accounts of such Parts as he is pleafed to mention. Nay, his last Edition does rather. indeed, feem to be a kind of Theory of Vision, in his way, than properly the Diffection and Anatomy of the Eye, which the World so reasonably expected him to have produced. Altho' his launching out fo far into the Theory of Vision (possibly even also with the Advice and Affistance of his Friends) yet I cannot by any means imagine, no more than some of his best Friends, who seem ready enough to allow, that this Part is not his greatest or best Talent.

Talent. It were then to have been wish'd, that he had dwelt a little more on fuch Part, as he has been judg'd to be more knowing in, to wit, the diffecting or operative Part, so commonly allow'd to be his principal Tallent. But if he, nevertheless, do judge himself to be sufficiently capable of, or even the more able, in the former, what shall we then fay? if not, that it is but too common a thing for Mankind, to endeavour to shew, that they shine the most, in that which in reality they often are found and appear to be the most weak in. I must, as vet. likewise further observe, that besides the former Reasons which induced me to the present Undertaking, is, that on Examination I observed, That I am so far from being expressly spoken of, or named, or that of my Treatife, in those his Accounts of the Eye (tho' of so long Acquaintance, or long publish'd, &c.) that he seems rather carefully to have * avoided the same; yet the drift in several Parts, if not in the whole, seems plainly enough to squint towards me, as I shall more particularly endeavour to make appear hereafter. And this Method of taking notice of a Person, or his Works, who, at the same time, plainly appears to be in our Eye, is far from being the best, probably the most ungenerous and unfriendly way of treating him. Now should he, at the same time, in the least, be any way found guilty of filching of any thing from any such Person's Performance, might we not then judge him to be still more blamable? I shall then only touch on fome few fuch Points as feem fomewhat a-propo, or relative to the Subjects, before treated of in our foregoing Letters. Should then this our Friend, incline to take Parts from us, hitherto allow'd, instead of discovering of new ones;

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^{*} This probably, according to the common, fashionable, approved Method, may not improperly be call'd, finking of an Author, when we incline he should not be much heard of.

in relation to the Eve, in his Anatomy. 75

and again to allow them in latter Editions, without the least Apology for so doing, what must we think? But to begin, and to explain this more particularly, I shall then observe, That most Authors now agree, as well as that in my Treatife, page 18, there is there made mention of the Tunica Aranea, (which envelopes the Crystalline Humour) viz. The Tunica, with which it is cover'd (speaking of the Crystalline) is called the Aranea; because of such a very delicate Texture: This Membrane adheres to, or is continued from the vitreous Tunic, and Ligamentum Ciliare. Very well, fo far is afferted by me: Now let us hear the Observation of our said Friend Mr. Cheselden on this Head, in his first Edition, publish'd soon after mine: where he goes on, page 176, in the following manner. "Some Au-"thors have reckon'd a Coat to the Crystalline Hu-" mour, which they call Aranea, from the Delicate-" ness of its Texture. But this Appearance results " merely from the boyling or exposing the Humour "to the Air: Which is their way of discovering it." Very good; this, surely, is a very bome Thrust at me, and all such as mention this Coat or Tunic. I took it, indeed, to be particularly levelled at me, on the first Publication thereof, (being foon after mine was publish'd;) upon which I call'd on Mr. Cheselden at his House in Cheapside. to talk the Matter over with him, to know what he meant by it; in fine, to fatisfy him on that Subject. I shall only fay then, that he made no great Reply thereto; but that he colour'd; which then, indeed, shew'd his Modesty on that head: On which I left him, without imagining it necessary to push it any further.

The next and latter Editions (which, as I've faid, I did not mind or look into till now) goes on as follows. Third Edition, page 325, as also the fourth, tho' a different page.—" The Crystal-

" line its Shape is a depress'd Spheroid; it is distinctby contain'd in a very fine Membrane, call'd A-" ranca." Excellently good again; " distinctly " contain'd in a very fine Membrane, call'd Ara-"nea." But how then are we to reconcile this with the foregoing positive Assertion in the first Edition? Some Authors have reckon'd a Coat, &c. What is this then, our ingenious Friend bis way of discovering it? without making the least Apology to the World for so positively and bluntly contradicting what he had as positively afferted before. And why not tell us how he came to make this new Difcovery? If he inclines not to discover to the World. that he owed to me any such Obligation, yet, surely, he might have form'd some pretty Story, as to his way of discovering it. But, indeed, he is very short in his Description thereof; so that he would feem to have concluded on that Head, that fewest Words are best. As to the Crystalline being in shape a depress'd Spheroid, he had better to have acquainted the World, as mention'd in my Book, that its form is as that of two Segments of Spheres of different Magnitudes, being join'd together, the most Convex of which, lies backwards in the vitreous Humour.

The next thing then, which I shall observe, and which seems plainly to have been borrow'd from me, or at least, that which first gave him such Hint (without, at the same time, taking the least notice of me) is, that as there was nothing mention'd of any Theory of Vision; or of any Print or Figure of that kind (for the better Explanation thereof) in his first Edition; why, truly, he very fairly puts into his latter Edition the same Figure on Vision as is contain'd in mine. 'Tis true, indeed, he might have found much the like Figures in Books of Opticks; tho' it seems full as likely, that he took the the first Hint from my Use thereof. It is, howe-

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ver, certain, and I doubt not he will readily enough alledge, That tho' the fame Figure in effect, yet that he has made fome Additions thereto, as that of an Optick Nerve added, as well as that of the Beam of Light, or the Rays of an Object being loft, which fall on the Entrance of that Nerve into the Globe to form the Retina. I will as freely allow that he has even done all this, which I judge no way necessary. Let us now then, a little confider the Uses our improving Author makes of this, as well as our own Observations thereon. I do not. in the first place, allow the Optick Nerve to be fo obliquely placed in Human Subjects, or quite fo distant from the Axis, or middle of the bottom of the Globe, as he puts it. Now, as to his particular Opinions, Ratiocinations, and Observations, in relation to this Nerve, I shall first choose to repeat his own Words, before I go further. Third Edition, page 328, speaking of the Rays of Light being loft, or their being infensible to us, which come from any Object, and are placed or terminate on the Entrance of the Optick Nerve, where it comes to form the Retina. Which. " (fays be) appears from part of an Object being " lost to one Eye, when we are looking towards "it with the other shut. I know (continues be) a "Gentleman, who having lost one Eye by the "Small-pox, and going through a Hedge, a "Thorn, unfeen (probably from this Cause) struck "the other, and put it out. The two Optick "Nerves, foon after they arise out of the Brain, "join and feem perfectly united: Yet, from the " following Case, I am not without Suspicion of "their Fibres being preferv'd distinct, and that the " Nerve of each Eye arises whol y from the opposite " fide of the Brain; or elfe, that the other Nerves " throughout the Body arise from the Brain, and "Meduila Oblongata, on the sides opposite to "those

"those they come out of." Which Assertion, or Supposition he pretends to prove, in the same place, from a Soldier, who by a Push or Violence on the left Eye, which raised it out of its Orbit, "was (says be) presently follow'd with excessive Pain in the right side of the Head only; and a 's loss of the Sense of Feeling, and Motion in both the right Limbs: Which, some time thereafter (says be) recovered."

First then, as to the Rays of Light coming from the Object, and their falling on the Entrance of the Optick Nerve, where it forms the Retina, which are there lost by being placed on the Diameter or the whole breadth of the Optick Nerve: Methinks, it would not be improper to enquire of our Author; whether even that very Breadth or Entrance there of the faid Nerve, be not also Retina? (and, probably, also the most delicate Part thereof.) Now; since he, in these latter Editions appears to affect much this kind of Writing, with his fingular Ratiocinations thereon, &c. it would have been, I imagine, or is still greatly a-propo, as an accurate Anatomist and Philosopher, to inform us, why this said Part of the Revina, being the whole End and Thickness of that Nerve, which is not an inconsiderable Part of the Retina where the Rays of Objects are placed; why fuch Rays then, or their Impulses, should prove less, or no way, sensible to us there, as they do on the other Parts of the Retina? I have, indeed, heard fome pretend to give a Reason, tho nothing satisfactory. Mons. Marriot, or others, their Experiments to prove such Rays being there loft, is no Answer to this Ques stion. Nor can I say, but that I still retain some Suspicions of that now so common received Opinion, tho' Monf. Marriot's Experiment is certainly very curious; yet, whether it may not even possibly proceed from another Cause, is what I cannot here

in relation to the Eye, in his Anatomy. 79

pretend to determine. And as it feems more properly to come under the Confideration of the Opticians, or the Improvers and Followers of that Doctrine and Opinion, so I shall at present leave it.

Let us now then come to the Proof of this Opinion, from the Observation made by our considerate Author, of the Gentleman who had his Eye struck or put out (or, rather Sight) by the Thorn unseen, probably from this Cause. I must freely own, I am here at a great loss to understand my penetrating Friend in this Particular; or as to his method of Reasoning. and in what manner it is he proves it by his mathematical Figure of the Theory of Vision; or by any other way. For Example; can our worthy and very curious Friend pretend to place a Thorn in any Pofition, so before the Sight of the Eye, as that the Person shall not be able to see, or any way to discern the said Thorn? if the said Person makes the least Attention thereto: If not, what does he talk of?

As to this Gentleman, his fo unluckily having this Thorn thus fuddenly to strike his Eye, that he had not time to shun it, from the exceeding Swiftness thereof; so that he might, in this manner, loofe his Sight thereby, is, no doubt, very possible. But as to the Reason given, or the far-fetch'd, learned Supposition and Remark our noted Author is pleased to make thereof; it is, furely, without the least Foundation, either from common Sense or Experience. Now, as to our celebrated Author, his Observation of the Optick Nerve of each Eye, arising wholly from the opposite fide of the Brain; I cannot allow that neither, or the least approve of that Opinion; notwithstanding, all the great Reputation he has acquir'd in this way of diffecting, &c. And I would oppose to his Authority the Observation of Vesalius his Woman.

man, who had her right Eye emaciated, together with the Optick Nerve on the same side; whose Authority, if we have any regard to, plainly proves, that the said Nerves do not cross each other, so to be communicated into the opposite, or contrary Eye: Or that their Fibres are any way mixed or confounded with each other (but tho' gently touching each other) their Fibres do, nevertheless, keep entirely distinct and separate, and the whole Nerve is inserted in each Eye from its own pro-

per side.

As to the Proofs brought by our faid Author, Mr. Cheselden, of this Soldier, who, by a violent Push on his Eye, which was prefently follow'd with excessive Pain on the contrary side of the Head; this appears to me very easy to be accounted for, in quite the contrary way to what our faid Friend advances. As for Example; what can shew it self more plain, than that the left Eye by the Violence of the blow, became thus greatly inflamed, and thereby was so accordingly raised or heaved up out of its Orbit; by which Violence the Dura and Pia Mater, that cover the Optick Nerve, behoved also thus to suffer, and readily so, likewise, to be thus over stretched and instanted. Nor can it seem any way strange, that those Membranes on the contrary fide of the Head (to wit, the right) should more. particularly fuffer on this Occasion; and thus to be bigbly enflam'd, violent Pain, &c. more especially, when we duly consider the oblique Insertion of the Optick Nerve into the Eye, and, consequently, upon the violent Inflammation, strong Tension, and pulling forward of the whole Globe, must necessarily, from its Polition (or that of the Optick Nerve) more particularly strain and inflame these very Parts of the Membranes of the Dura and Pia Mater, on the opposite side. And, that the right Limbs of this Patient might likewise suffer from the

in relation to the EyE, in his Anatomy. 81

the same Cause, to wit, that of loss of the Sense of Feeling and Motion, need not, neither, seem any way strange; when consider'd, that the Ceats of these Nerves being also affected by the Instammation of the foresaid Membranes, on that Side or Part from which they receive their Coverings or have a Communication.

But now, let us take a little Notice of our prefent Author, in his describing of the Aqueous Humour of the Eye; or rather his accurate Account of the proper Uses thereof. Third Edition, page 324, he informs us in the following Manner. " Aqueous Humour lies foremost, and seems chiefly " of use to prevent the Crystalline from being easi-" ly bruifed by rubbing, or a Blow; and, perhaps, " it serves for the Crystalline Humour to move for-" ward in, while we view near Objetts; and back-" ward, for remoter Objects." And what, is this then the only Account and Uses of this Humour, which our accurate Anatomist can give us; or that he judges necessary to oblige the Publick with? In my Opinion, he had far better have faid nothing on that Subject; because it instructs not, unless to lead the unwary out of the right way. How, I pray, does it prevent the Crystalline from . being easily bruised by rubbing, or a Blow, any more than were the same Cavity or Chamber fully extended with Air? And, consequently, if so, no need of the Aqueous Humour in that Case: And as to his. perhaps, of the Aqueous Humour ferving for the Crystalline Humour to move forward in-that, I fay, (even supposing such Movement to be fact) were this Aqueous Space, as we faid before, only fill'd with Air, such Motion would be full as well perform'd: And, consequently, if so as observ'd, there could then be no manner of Use or Occasion, for the Aqueous Humour, as express'd by our said Author. But, on the other hand, I should be glad to know, why

why we may not suppose some further real Uses of this Humour, and, which I take to be these, to wit, that it is of use not only for the more full Extension of the Globe; but is also to keep the inward Humours and Membranes at their due and proper Place and Distance; particularly the Crystalline, and that of the Uvea, or Iris. It likeways, undoubtedly, bumeEts or moistens all the Membranes within this said Space or Chamber; which would otherwise dry and shrivel, &c. It serves to the infide of the Cornea, as the Lachrymal Liquid or Water does, to moisten its outside: And is of great Use to moisten the Fibres of the Uvea and Iris, and to keep it from drying or shriveling, as well as in its proper Form and Place. It probably also fills any Vacuities and bumeets all within the Globe of the Eye. But in page 326, third Edition, he makes a fur-

ther Remark on this Humour, which we cannot well, in filence, pass over; his Words are as follow. "The same thing also may be observed of the " Aqueous Humour, which is, indeed, more * con-" cave than convex: but when the Crystalline Hu-" mour is removed in the couching a Cataratt, the " Aqueous possesses its Place, and becomes a Lens; " but that refracting Light, less than the Crystal-" line, whose Place and Shape it partly takes, the " Patient needs a convex Glass to see accurately."— How, quoth he? the Aqueous Humour becomes a Lens! This is a piece of News indeed, and a fingular Use we have not heard of before. But how is it our very curious Author proves all this? Is it by Diffection, or by Authority from other Writers? No truly, it is all bis own, his own Observation, and that's enough. Well, so then it shall be his own; for I dare swear, none will ever dispute it with bim its being all bis own. And yet I am still in some doubt, whether he believes it to be intirely bis own: for I am in some Suspicion be takes it from Monsieur Bril-

This would require a little further Proof.

in relation to the EYE, in his Anatomy. 83

Brisceau and Maitre-Jean's Opinion of the vitreous Humour doing the Office of the Crystalline after couching. And he thus either mistakes their Account thereof, or, otherways, he feems here inclined to give us (in this manner) his Improvement thereon. However, if we allow their Opinion to be of force, and which; no doubt, carries fome Probability, and a Strength of Reason along with it, to wit, that the Crystalline being beat down, the Cavity of the Vitreous becomes convex, more particularly affifted by the Pressure of the Body of the Crystalline so depress'd, on the fide of the vitreous Humour; if this then, their now fo common received Opinion be thus allow'd, there cannot be any thing in this Affertion of our Friend Chefelden, of the Aqueous Humour becoming a Lens, or of its possessing the Place of the Crystalline, &c. So that it would, methinks, be intirely necessary for him to discuss and clearly to dismiss this now so general Opinion, before he pretends to establish his own; or that he still persist in that no-But now again, as yet to indulge our table Notion. Friend, by laying afide this French Opinion, (tho already fo generally received with us) let us then suppose, according to our improving Author, that the Aqueous Humour, (on fuch Occasion) falls into , the Cavity of the Vitreous; yet how it becomes a Lens, or bow it takes its Shape, is indeed beyond my Comprehension: for the it fills up this Hollow, yet is not all on the fide, and above this to the Cornea, a great part of a large aqueous Globe? Posfibly not much less than ten times the Bigness of that spoken of, which fills the Hollow of the Vitreous. Besides, how can it have the least similitude in Form, when we consider the aqueous Body to be extended, at least, as far on each side of this Cavity? When we consider the depress'd Crystalline also to take off some part of its Form? And when we consider the Uvea, or Iris, which forms the G 2 Pupil,

Pupil, to lie in or near the middle of this aqueous Body, can any rational Creature then pretend this, in any manner, to be the shape of a Lens? But let us now consider this whole aqueous Humour, which our Author is so very ready and willing to turn into a Lens. I say then, that as the Rays are first converged by the Cornea, so they will diverge again in the Aqueous consequently, even till they come to the Vitreous; so that the Aqueous, from hence, cannot, any way, in this manner serve as a Lens?

As to the vitreous Humour, our accurate Anatomist is not pleased to give us any anatomical Disfection, or Account thereof, only that it serves to keep the Crystalline at its proper Distance; for which Reason I must refer the Reader to my Ac-

count thereof in my Ophthalmographia.

I might here likewise observe, which I had like to have omitted, that in page 320, third Edition, he judiciously makes us the following Remark: Therefore, says he, a dilated Pupil is a certain Sign of a bad Eye. I humbly conceive that our correct Author would say, or mean, a preternatural Dilatation; which is, no doubt, a bad Sign: But might he not with as much Reason also, at the same time, have added, that the preternatural Contraction thereof is likewise a bad Sign.

Yet I doubt not I have just now advanced full far, and very possibly our Friend, Mr. Chefelden, may not so readily allow, that the preternatural Contraction of the Pupil (to wit, the Relaxation of the Fibres of the Uvea and Iris) is a Sign of a bad Eye; because when I reslect, he is pleased to acquaint us, that he has invented an Operation some Years ago upon this Muscle, Uvea or Iris, that is, on the total Closure of the Pupil (from that Cause.) And this singular Operation he has not only been at great pains

in relation on the Eye, in his Anatomy. 85

pains most accurately to describe in the Philosophical Transactions, to that learned Society, whose President is so great a Judge of these Matters of the Eye, &c. but he has, likewise, most accurately and most obligingly described it, a second time to us, in his Appendix to his Book; in all appearance, indeed, a complete Coup de Maitre, the true Touch-Stone of delicate Operations, not much inseriour to that of the Drum of the Ear, particularly in the in-

flammatory Cases spoken of.

But, methinks, on his fo obligingly acquainting us with the Discovery of this so very ingenious Operation, it had not been amiss, I should imagine, that he had at least also inform'd us somewhat more particularly of the Nature of these Parts, and when in their preternatural State? More especially when most necessary to perform this excellent Operation? Well, but then, in answer to this, he is so good as . to inform us of all this, (as he supposes:) His Words are; * " Three Figures of Eyes to ex-" plain an Operation, which I invented some "Years ago, and printed a short Account of in the Philos. Trans. and have often practised with " Success. The Distemper for which this Operation " is perform'd, is either a total Closure of the Pu-" pil, which is fometimes natural, and fometimes "happens from Inflammations; or else when the " Pupil is extremely contracted, and the inner "Edges of the Iris growing to a Cataratt, or part " of a Catarast after couching. The manner of doing this Operation is thus; the Eye-lid being " firmly held open by an Instrument, a small "Knife or Needle, edged on one fide, is thrust " through the Tunica Sclerotis, as in the lower "Figure; and then forwards thro' the Iris, the " Edge being turned to the Iris; in drawing of

G 3 " it

^{*} Table III. in his Appendix, page 19.

it out, a Slit is cut, as in the two upper Figures. When this Distemper is without a Catarast, it is

" best to make the Operation in the middle, as in

" the upper one; but if there is a Cataratt, or

" part of a Catarast, then to make it higher, that

" the Catarast may not obstruct the Light. These

se Cataratts are generally very small, and some-

"times by reason of their Adhesion not to be removed. The Aperture in the middle Eye, was

" made lower than the center of the Cornea, there

being an Albugo on the upper Part of it, which made it unfit to perform the Operation in that part.

Now that he has often practifed (this Operation) with Success, is what we shall more fully treat of hereafter. The Diftemper, fays he, for which this Operation is perform'd, is either a total Closure of the Pupil, which is sometimes natural, and sometimes bappens from Inflammation. The first, methinks, of the total Closure of the Pupil, appears to me to be a very unnatural State; and very rarely, if ever, fit for any fuch Operation; and as to the other kind, which, fometimes, quoth he, happens from Inflammation, there this notable Operation seems to me to be full as unnecessary and improper; fince either the Inflammation will, with time, of itself, or by proper Methods, go off, or it will not, by that, or by any other Means. And is it then the best Practice, or was it ever hitherto practifed, to feparate or to cut a Muscle (or Sphincter) to pieces, so to render it useless, by way of the best Cure for an Inflammation thereof? Is not the Contraction of the Pupil (or the Expansion of this Muscle or Iris) abfolutely necessary for the Preservation of our Sight? that is, by such Contraction, to defend the most delicate Parts of this tender Organ from too great a number of Rays falling on them, when the Light is too strong? Which being true, beyond all Contradiction, this so very necessary Defence then, being

In relation to the Eye, in his Anatomy. 87

absolutely wanting, I conceive that on making such an artificial Pupil as proposed by this ingenious Operator, the Patient would by such means, from the want of such proper, natural, and absolutely necessary Defence, in some space of time, become as much blind (if not more effectually so) than if no such Aperture had ever been made. Moreover, 'tis certain, that Inslammations are readily carried off either by Art or Nature, and the Patient then again recovers his Sight as before; whereas, by this Operation, he never can, from the Destruction or Transsiguration of the Parts, &c. besides Blood following such Operation and mixing

with the aqueous Humour, &c.

'Tis true, indeed (until lately) accidentally peeping into this Author's Supplement, I altogether imagin'd, that the Operation of making of new Pupils had been the Operation and fole Invention pretended to only by that clamorous, noisy Itinerant Taylor; but on my examining that dexterous Operator's new Pupil, which he fo much inclined to value himfelf upon, I found it only to be, the having cut one half of the *Uvea*, or *Iris* through (with his Needle) by meer Accident or Blunder, on his performing the Operation for the Catarast, which the Patient also labour'd under: And which I have likewise observ'd, as an Accident, having happen'd to myfelf (vid. my Ophthalmographia) on my first performing that Operation. However, this of Taylor's was no other than a meer Pretence, (of a Novelty) a downright Bamboozle, the better to cover bis Fault, or Blunder. Whereas this, indeed, of the more truely sincere Mr. Cheselden, is a real artistcial new Pupil without Fraud or Guile, intirely of bis own Invention; and for which 'tis pity but that he had a particular Patent granted bim from the Crown; or an express Act of Parliament for the making of new Pupils, to all his Friends (when G 4 they've they've Occasion) as well as to all others who like it. Well, but then, our Author is also pleased to tell us. That there is as yet another fort where this Operation is also necessary; which is, says he, when the Pupil is extreamly contracted and the inner Edges of the Iris growing to a Cataratt, or part of a Cataract, after couching. --- But then our candid Auther very wifely observes to us, that these Cataracts ere generally very small, and some times by reason of their Adhesion, not to be removed. Mighty well: a very hopeful Operation: Surely our Author dares to an/wer for it, that it will prove so; to wit, the muscular Fibres of the Uvea or Iris, quite defeative of all their Motion, and behind a Catarast growing to these Fibres, or to the inner Edges of the Iris, and sometimes by reason of their Adhesion not to be remov'd. All very notable Symptoms to perform a very successful Operation on; more especially, when attended with an Albugo likewise on the Cornea. Well, be it so then, and now without any further examining the Success of this Operation in particular, I shall then wave it; but as I feem to have required a more full Account of our Author, concerning the Nature and State of these Parts, where such Operation proves requisite, or some Account of the Occasion and Cause of such Maladie; I shall here, accordingly endeavour to fay fomething more full on this Head.

The Dilatation of the Pupil, which our Author speaks of, as a Sign of a bad Eye, is indeed a Symptom, (more or less) attending the Gutta Serena: And seems to be a Desiciency of the Animal Spirits, the Succus Nervorum, or that of the necessary Fluids, from their duly supplying or so properly passing into this Part or Muscle, the Uvea and Iris; so that the Fibres become shrunk or shrivel'd. In a word, there seems in such Case to be a Decay of the optick Nerve, or a Paralysis of these Parts. The total Closure

in relation to the EyE, in his Anatomy. 89

Closure of the Pupil, which is natural, fays he; tho very unnatural I should think; yet this we will, I fay, consider under the same Head as he has put it. This, no doubt, in fuch natural State, (as he is pleased to term it) must be a total Relaxation of the circular, as well as of the straight Fibres of the Uvea and Iris, and fuch a preternatural Extension. at the same time void of all manner of Contraction or Motion; must likewise be a nervous Affection or Obstruction, (tho' possibly, the other Fluids may not yet be so totally obstructed;) in which case, as well as in the former, we shall readily find the Optick Nerve, or the Sight to be affected; and confequently this Operation will be of little or no U/e to the Patient. Add to this, that I believe it will generally be found, that there is yet further, or fome other Maladie attending these Parts, as well as that the Aqueous Humour will be found to prove turbid on this Occasion. But in spite of all this or any other fuch little Observations, or trifling Difficulties, our Author can still go boldly on to perform his fo successful Operation; thus making his notable Slit, or new Pupil, which, tho' not performing the Office of contracting or dilating (as natural Pupils do) yet the Patient, as we are inform'd, will nevertheless see very well; such Contraction or Dilatation, (according to our present Author) being, it would feem, with him, a meer matter of Moon-shine, of little or no consequence or use: But I doubt not, this so successful Operator will be ready enough to observe, That talking, or reasoning, is of small Importance, when he has so often practis'd the same with Success. Very well, Practice in Facts, are, no doubt, far beyond all other Ratiocinations. Let us now then examine a little into the real State, Nature, Truth, and Multiplicity of the Fasts on this Occasion. In order thereto then, I judged it the best Method to en-

enquire of Mr. Cheselden bimself, where the Generality, or feveral of such People were to be seen or heard of, on whom he had so often practis'd this Operation with Success? I accordingly made him a Visit at his House in Chelsea, Mr.of the Hospital being present (over a Dish of Tea.) But upon my Enquiry into these Particulars he acquainted me, that he could not pretend to inform me where feveral of fuch People were, or what might be become of them, but that he could bring me many People to testify the Truth of what he had so successfully perform'd on that Head. In answer to this. I thank'd bim; but at the same time told him. That I always made choice of seeing or examining fuch Patients my self. Upon which he faid, That be could not name any more than one Person, a Woman who liv'd at Deptford. Some Days thereafter, I accordingly enquir'd out this Person there, (fince married to a Musician, whose Name, as I was inform'd, is Crome.) Upon Examination, I found she was about fifteen Years of Age when the Operation was perform'd, being now about ten Years since that time. She also inform'd me, that it had come with the Small-Pox, when about two or three Years old; one Eye being entirely perish'd by that Maladie, whilst the other remained in fuch a very bad way, as that there was but little Hopes from fuch as then faw it, for the Recovery thereof: So that there remains no Probability to me, of its having had a Cataratt, as Mr. Cheselden with others before him suppose, or affert; which (fays he) he knew not till + open'd. From the manner, I say, of this Maladie coming fuddenly on with the Small-Pox, together with the shutting up of the Pupil, &c. it would therefore rather appear to me, to have been this attending Maladie of the Small-Pox, strongly

d Or which way then know it if quite closed?

these

in relation to the Eve, in his Anatomy. 91

these Parts, throwing it self on the Uvea and Iris, inflaming them, and leaving the Pupil thus clos'd or quite shut up, (an extraordinary Cafe which but seldom happens) and which Mr. Cheselden thought proper to attempt, without much hopes of Success, as she inform'd me; for being then blind, there could be no great Risk in such Operation: by which means she can now see, tho' with some considerable Difficulty, and can somewhat doubtfully make a shift to distinguish a Key of about four Inches in length. Her Sight, however, now, as the acquainted me, being confiderably mended fince the Operation, which I told her, I thought fhe might in some measure be obliged and indebted to her Husband for, having had feveral Children or Miscarriages since that time, the Humours in general, thus tending more downwards, together with her Increase of Strength by Age, &c. Ay, but, said she, my Husband would searce bave married me, bad not this Operation been performed. That is indeed another Story, which we will not pretend to determine: But as to the Nature and State of this Maladie on performing of the Operation, as well as how it is fince that time, it would appear to me to stand thus: The Pupil being shut, in the manner I have before mention'd, (as an extraordinary Cafe rarely happening) there could be little risk in opening it; yet why it should not rather (in this Case) have been open'd in the very middle of the Iris, so the better to represent and do the Office of the Pupil, is what I cannot comprehend, fince it was there, fuch Aperture must prove the most natural and the most useful; unless, as before hinted, he had supposed an adberent Catarast behind, toward the middle or edge of the lower fide of the Pupil, which I must freely own I do not fee the least room to imagine, from the Nature of this Maladie: nay, I may, I think.

think, very fafely venture to fay, that the Incision appears to be full as low, as the lowermost Part of the Pupil naturally comes; fo that the Adbesion of a Catarast, or any part of one there, (below this lower Edge of the Iris) could be no manner of Obstruction to the Rays coming in, in their usual manner (through the Middle of the Iris) whereas this Aperture here spoken of on the foresaid Patient, runs far beyond the usual Breadth of the Pupil, not only on each fide thereof, but even upwards also, as high as the Operator could well go. So that the Iris, (or where it was) on the upper fide, appears to be quite destroy'd, the whole Aperture (now ferving for the Pupil) being twice the Largeness of the natural one, and is confequently twice as large as truly necessary; a very great prejudice on feveral accounts; particularly, that of not feeing Objects tolerably, if at all, at any great, or even at a moderate Distance; which is indeed this poor Female's Case. At which Time, whate'er Mr. Cheselden might yet further judge necessary to be done, than this of making fuch an Aperture for the free Admittance of Light; and that he still suppos'd or imagin'd a Cataratt there; or that he furmis'd fomething further was yet necessary to be done, I know not; but it feems plain, that after having perform'd the foresaid Operation he went to depressing, or beating down of the Crystalline Humour; which Body, or Humour, -if I mistake not extremely (being I have feen it but once) I then faw it, a transparent Body, lying down, behind the lowermost part of the Uvea; that is, betwixt that, and the inferior fide of the vitreous Humour: yet whether any way chang'd from its usual and natural State; or that of its common pellueid Transparency, (tho' to me it still appears transparent as naturally) yet, whether, I fay, any way different in Colour, is what I cannot pretend to de∽

determine: But it appears plain to me, that had there less been + done, and particularly in regard to the Aperture made in the Iris; which had it been made less (to the Largeness of the Pupil only) it must no doubt have been much more to the Ad-

vantage of the Patient. *

This then was the only Person that Mr. Cheselden could give, or that he judged proper to inform me of, in regard to this Operation, which he is pleased to inform us, was his Invention, he has fo often practis'd with Success. 'Tis true, that a like Cafe mention'd by him, accompany'd with an Albugo, of which I was likewise informed by one of the same Hospital, that he saw this Operation very fuccessfully perform'd by our Author; but as that Gentleman who inform'd me hereof, afcribes the first Proposal of the performing

† I frankly own, I a little suspect our present Operator to be full ready not to do less than necessary, probably some times more. He twice in a few days attempted couching a Cataratt (before ripe) on a Servant to a Person of Distinction, which brought on great Inflammation; yet would have attempted again: But I advised her to forbear, which she did, and

now fees tolerably, which he hardly knows.

* Since my seeing this Woman of Deptford, I lately spoke with Mr. Chefelden, acquainting him, That I had feen his Patient; and that I observed a transparent Body lying behind the lower Part of the Iris: He readily own'd it to be the Cryftalline, as I judg'd it to be. Well, but said I, I never saw a Cataract like that. To which he reply'd, they were of all Colours. Yes, said I, but not quite transparent as that is. To which he made no Reply, but went away. This sufficiently confirms me in my foresaid Opinion, of there having been more done in this Operation than necessary; and it appears no manner of Question to me, that were that same transparent Body or Cryfalline in its proper Place, she would consequently see much better than what she does at present: And from hence I think it must plainly appear, that it was no adherent Cataract, or indeed a Cataract of any kind, as at first given out; but in all probability that alone which I have faid, and suppose it to have been, to wit, a growing together of the Edges of the Uvea, or a shutting up of the Pupil, occasion'd by the Humour of the Small-Pox.

the Operation (on this Patient) to himself, so I am inclinable from this Reason, to suspend my Judgment or Opinion of this Case, until I see the Patient, of which there is no great Likelihood that I ever shall.

But it is very certain, that this same Practitioner here mention'd, is somewhat ready to advance that it is no way necessary to satisfy the rest of Mankind on any such-like Subjects, provided that they the Practitioners concern'd therein, be themfelves satisfy'd. In answer to which I shall only say, That I am extremely easy on this head, as to my own Particular, at the same time hoping, that the rest of Mankind are so also; and that they do not so unluckily judge, think, or expect, that there is still a little more due to them, (at least) from such their Servants, establish'd on these their Publick Foundations.

As to those kind of Catarasts where the Pupil is extremely contracted; fuch (no doubt) are very frequent, tho' rarely couch'd with any tolerable Success; on these likewise the Operator may be fomewhat apt to wound or cut the Iris, being the former (in that Case) comes pretty near it, and confequently the Needle must do the like in the Operation. Thus Taylor cut the Uvea half thro', upon such an Occasion, on a Chair-maker's Servant in Paul's Church-yard, from the want of due Care, as has been observed; and this notable Blunder our modest Operator would have pass'd upon the unknowing World for a great Curiofity, to wit, a new Pupil: but I foon discover'd the Deceit, and of which the like Accident I make particular mention as happening to my felf, (vid. my former Treatise) proceeding from my want of due Care.

In a word, as to the further Particulars of this Operation, so newly invented by our Author, as he

in relation to the Eye, in his Anatomy. 95

is pleased to acquaint us, Mr. Serjeant Amyand told me, that he saw him attempt it twice, in Guy's Hospital, which he very quickly perform'd, but

without any, or the least Success.

I should, in short, I very freely own, be well fatisfy'd to see Mr. Chesclden perform this Operation with Success, before proper Testimonies, in the inflammatory Cases, (especially) when the Pupil is quite closed up, by means of such Inflammation; or, in a word, in any other Case, not used and perform'd hitherto by others. A small or contracted Pupil, with a Catarast, being fufficiently often practifed, (as before hinted) tho', as observ'd also, rarely accompany'd with much Success, any more than those of his: Nay, and where the Iris has likewise been cut, whether by Blunder, or other-Now, as to his Invention of the Knife, I am fully fatisfy'd, that the common couching doubleedged or spear-pointed Needle, is much preferable, being it cuts on each side, and so to be used as occafion requires.

As to the young Gentleman mention'd by our Operator, which he informs us gave those fingular Accounts of the Representation of Objects, after his being couch'd, they are much the fame with those of others, who have had the misfortune of being born blind, or very young when the Catarals first came on, and so thereafter have been couch'd. Now, as to this Gentleman's feeing, I am forry to fay for his fake, that it is still but very imperfest, and far from being able to read or write therewith; which, fays our Author, he thought only worth the undergoing an Operation for: It seems even to be with confiderable difficulty he can guide himself along without some Assistance; and I am apt to believe, that he still knows Puss (whom our Author mentions) much better by bis feeling than he does by bis feeing. But here it may not be amis

amiss I observe, that six Months after the Operation on the last Eye, an Accident happened to this Patient, (as I am credibly inform'd by the Parent,) which Mr. Cheselden was no way able to account for, or any how to inform them, what the nature of such Ailment should be: The Youth said, that he felt fomething in his Eye, which feemed to him to give a Crack. The Globe of the Eye was much inflam'd, and accompany'd with great Pain, a fort of Cloud appear'd forward, or on the outfide of the Pupil and Iris; the Aqueous Humour at the same time being very turbid, accompany'd with a great Flux of a watery Humour, probably from the Lachrymal Gland. This Accident or Maladie which Mr. Cheselden seem'd quite at a loss to account for, appears plainly, (in my Opinion) to have been an Abscess, or a total Suppuration, or purulence of the Crystalline Humour, which possibly it might even incline, or tend to, before couch'd. The Crack which he feem'd fo fenfible of, might probably be on its breaking; the whole thereof might in all likelihood also pass through the Pupil, fo as to appear like a Cloud, thus term'd by fuch as inspected it; and in this manner likewise rendering the aqueous Humour in general turbid; which however in a few days thereafter became clear, the faid Humour fettling to the bottom; and the Patient, his Eye, and Sight, remaining much as before this happened.

But now, whilft I am yet treating of Operations, it may not be amiss I endeavour to set Mankind a little right, as to their vulgar Notions on this Head; which is, that of a fine Hand, a clever Operator, &c. whilst at the same time they are ready enough to admit, that he has no Head, &c. This then makes me call to mind, that noisy, and so very notable Operator Taylor, who many have been pleased to call so extraordinary;

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and

in relation on the Eye, in his Anatomy. 9

and to admire him for his being fo very bandy, clever, &c. Nay, I cannot even here pass by the mentioning my old Acquaintance Mr. Serjeant Amyand, who has even told me as well as others. that he must still do that Justice to this Operator. (however defective otherwise) much to commend him for fuch his Adroitness, &c. and particularly. (continues he) in the fo steady manner of operating, as by that of resting bis Elbow, &c. Mr. Serjeant should, no doubt, be allow'd to be a Judge of Operations in general; yet in this Particular I must freely own, I can hardly allow him to be so; or that he has not so duly consider'd it. In the first place then, as to the fresting of his ELbow, in the Operation of the Catarast, I am fully convinced that it is quite wrong, being of opinion, that the faid Elbow ought to be entirely free, and at full Liberty, whether it be for the advantage of occasionally retiring or turning it, whether obliquely, sideways, upwards or downwards, forwards or backwards. Nay, I cannot imagine, but that were it necessary, or any better to rest in such manner in this way; but that it would also, methinks, be full as proper, and requifite, in bleeding or in most, or any of the leffer Operations of Surgery; a Practice contrary to all Experience, as well as against the common Opinion (hitherto) of all the most noted Operators. The next thing to be obferved, of this fame Showy Braggadocio Operator, is, that in order to couch, he first makes Incision with his Lancet, before he introduces his Needle, (also much commended by some, who would willingly pass for knowing something of the matter) tho a Practice still more stupid than the former; fince by making the Orifice larger than the Needle, (besides this latter Instrument very readily lacerating, or doubly cutting the Parts in entering that Orifice) on pressing the Globe of the Eye in the

the Operation (for the keeping it more fleady) the equeous Humour will thus very probably more eafily, and readily, be most of it squeezed out; and yet more particularly by the use of the Speculum oculi, likewise full as improperly practis'd by him, because it presses still more than the Fingers. Thus, cry they, he most dexterously and sedately, without the least Concern, turns the Backfide of an Eve forward, or nicely screws out, the Crystalline Humour with a golden Screw, &c. whilst fuch notable gaping Scioli are gravely looking on, staring and admiring the Dexterity of his Hand; whilst he is very candidly valuing himself on the vast numbers of Eyes that he has put out, or the Crowds of People that he has blinded. The wife By-standers at the same time, being aftonish'd with Wonder, cry out, yes, furely, he must be very greatly knowing on that account; tho', were I to choose, I should much fooner advise any one to go to the good Woman of New-street, far less liable to play such audacious Pranks.

But what I must here observe, in relation to the Dexterity of Operators, (so very much and principally minded by the Unskilful) it is not fo much then the Quickness, or seeming great Dexterity of the Hands of an Operator (serving to hoodwink the By-standers) that is in reality so much required, as it is that of the true Sagacity and Judgment of the Head, which is so very absolutely necessary. It is that is the principal in this, as well as in most other Affairs of any consequence; and he who has that, the Hands will follow such Directions with Safety: And without this the best Hands will commit infinite Blunders daily. The Devil himself may depend upon an Operator (for me) who only has good Hands, and who has no good Head also; or, at least, a good Head present with them, ready to affift and advise such Hands with proper Cautions,

in relation to the Exe, in his Anatomy. 99

or judicious Directions, if so to be advised, or to take Direction, not being accompanied with an obstinate vain Head, &c. He who has a sufficient Sagacity, a judicious Head, will rarely undertake what he knows he is not duly instructed in. Neither is it greatly material, whether it be fo very neatly, quickly or dexteroufly performed, fo it be done with Judgment and Safety (tho' even that it might have been better perform'd) yet if no very gross Slips or Blunders, still that same Sagacity and Judgment here spoken of, will make amends for the Whole, in the Cure. Whereas from the Deficiency of this, even tho at first better perform'd, the Patient often, sooner or later, perishes; and thus I have known some of the best Surgeons, with us, very unhandy in the Operations, as Bernard, &c. It is but too common for the most forward People, with none of the best Heads, to be the most enterprizing and ready in performing of Operations; undertaking, and headlong running through both thick and thin, without the least Reason, Fear, Wit or Judgment. Thus fometimes bit, fometimes miss, Luck is all.

Now, if after what has been advanced, it be as yet alledged, that whatfoever Faults I may pretend to have found in relation to our present Author, here mention'd, Mr. Chefelden his Knowledge, or the operative Part with regard to the Eyes; yet that I cannot certainly, with the least good Ground, have any other Remarks to make, than that of the highest Success, in the Operation of Lithotomy, which is so universally agreed to.

This indeed feems to be altogether out of our present Purpose and Design, tho, methinks, it may even as properly come in here, as that which he has introduced concerning the Eye, into his Anatomy; and possibly, I might even be able to say

full as much on that Head, and with as much Reason too, having seen and apply'd as much even to that Part also, as any whatsoever, who have not made it their real and constant Practice and Business of operating; and this too with most of the first Masters in Europe, in that way: Nay, I have even my felf, formerly, gone some lengths therein with Reputation. But on a more ferious Reflection, That some must still die, or in short, be kill'd by this Operation, even with the most successful Operator, I freely own this made me more ready to decline the going on with any such Practice; more especially, as I not long thereafter laid entirely aside the further Practice of Chirurgery, or of any Operations what soever, thus to think of nothing more than the Medical Part. As to Mr. Chefelden's vast Success in this way; such as that of cutting thirty, of which only one is faid to have died, I need but remark on this Head, That had he or those of the Hospital, thought proper to give us, Day or Time, and Place of Abode, that such thirty were cut, and none dead during that time, it would have been a more full Satisfaction to fuch as inclin'd to examine, and to be more thoroughly fatiffied of the Veracity of such Assertion. May 1728, fays our Author, Four cut in the Presence of Monfieur Morand, one of which named Money died; the Names of the other three, continues our Author, I bave forgot. Very good indeed! Well, fay the Friends of our Operator, this is furely altogether like himself, in his own careless Way. Mighty well again! However, without examining quite so closely in this, as in the Eyes, I am ready to believe him fuccessful herein; yet I must beg leave to suspend my Judgment as to Number, which as averr'd by him, far exceeds that pretended to by the so celebrated Colegiani of Florence, whom I have often feen to operate, with great Success, and

in relation to the Eye, in bis Anatomy. 101

whom I should have preferred for a Head and Hands, with his fingular Humanity and Candor, before any other I have yet feen or known in France, Holland, or any where else. Such Account also far exceeds that of Paris, commonly computed at one in five. Ought not Mankind then to be well and fully fatisfy'd in fuch an extraordinary Fact? However, if we are entirely to rely on their own Testimony, or those of their Friends only, as they feem most inclinable we should; why ought we not as well then to give full Credit likewise to the Testimony of Albinus, that eminent Professor, in relation to the very extraordinary Success of my Instructor, the so greatly famous Professor, Row, or Ravius? whose Method Mr. Chefelden owns principally to follow. If then we credit this faid Testimony, (which probably ought to be esteemed, at least equal, to those given by our present Operator,) the Success of this able Lithotomist was vastly superiour to that of Mr. Cheselden, not exceeding two or three who died of a great many Hundreds who were cut by bim; which, if so, or any way superiour to the Number pretended to by Mr. Chefelden, methinks he then should accordingly entirely rather follow the Method of the said Professor, than any way to vary from it, as alledged by him. For my own part I must, as hinted, beg leave to suspend, at least, my Judgment on this Particular, either as to one or t'other. However, it appears in the mean time observable, that those mention'd by Mr. Cheselden, in his Book, as successfully cut, are in general Children, which will, no doubt, succeed the best.

I would willingly flatter my felf, that there is not such frequent Occasion for this violent Operation, as Mankind do commonly imagine. I freely own, and, I think, I have some good Reason

H 3

to be of Opinion (that if not effectually to be cured without cutting) they may in general be made * so easy, as not to be under a Necessity of being cut, from the Violence of Pain: Particularly, if, I fay, they are any way governable, so to abstain or take what is necessary. As to such who cannot so conform, they are at full liberty to go on in the forefaid Method of being cut. However, I must likewife agree, that in the case of Children it seems to be as yet somewhat more requisite, because it is more difficult to confine and regulate Children, or young People, in their manner of living; and thus if not in such way easily to be relieved, it seems too tedious, and fevere a Method to be followed by fuch, during Life. Besides, as observ'd above, Youth being on their fide, do confequently most commonly succeed much better in the Operation. To this then I would beg yet leave to add, as to this Operation in general, without applying it to any in particular, that should I, by meer Accident, find (without the Trouble of Enquiry after the common Success of an Operator) that the first two I have so known, died of the said Operation; and that no one else had so happen'd in my Way, or Knowledge, of the Successful gender; in such Case, I conceive, it cannot well be thought extraordinary if I should at least suspend my Judgement, until I am by Accident, or otherwise, consirm'd of the great or extraordinary Success of any such.

But now I may here, perhaps, appear to have advanced more than what feems to be absolutely necessary; tho' at worst (what we have said of the Stone) methinks, it ought but to pass with our

Author

^{*} Or even without undergoing such a nauseous Method, or the taking such a lead of fulsome Stuff, as that of Mrs. Stevens's; which, however, when properly us'd or administer'd does good; whereas improperly us'd (or improper Patients) it does hurt, not distinguishable by her.

in relation to the EYE, in his Anatomy. 103

Author, as an Equivalent for his on the Eyes. Tho' I, in reality, rather intend it to the Publick, thus to shew that all things are not always according to the common Representations, and usual received Opinions of the World, whether by dint of Friends, or otherwise. However, I must at the fame time affure my old Acquaintance, our prefent Author, that whatever length he may imagine I have gone in this, I must likewise here asfure him, that I could still have gone a good way further, had I inclined it; and even tho' possibly I might have some Reason so to do, from his manner of expressing himself; such as that he would as willingly be writ against (by any one) as not. I cannot well fay how favourable this ought to be interpreted, whether he may mean, That he would as willingly thus be taken notice of, by such especially who may have acquired any Reputation in the like way; which might accordingly be of some fervice to bim. If fo, I am fatisfy'd. Since I freely own, I have the Vanity to believe, that my Reputation in the World (is at least in this way of the Eyes) full as good as his is. But if he would be understood in any other Sense, then it is no way less proper what has been here faid. He indeed observes, justly enough, that an Author either writes what is Truth, or be does not. And fo, fays he, it will stand or fall accordingly. And thus consequently, we ought to be the less troubled thereat. Mighty well, and greatly true. Yet I am still a little ready to believe, that he, as feldom as his Neighbours, is much fond of having all Truths (that relate to him) freely told or laid open. However, I am entirely willing, and fincerely defirous, that thefe Thoughts should stand or fall according to that Truth there is found to be in them. Neither would I have our Author vainly to imagine, that I thought it worth the while to write against him or his Notions H_4

tions in particular, but that I have mention'd him with the others hinted at, for the Reasons already spoken of; that is, principally to defend myself in fuch Parts, where it may be judged, he, or they, may any way oppose my foresaid Opinions; or feemingly to clash with fuch Thoughts there laid down. Well but then, he is, in the next place. pleased frankly to tell me, that if I write against him be will not answer it: Founded possibly on the forefaid Maxim, of being either true or falle, and consequently not necessary to be reply'd to. Extremely well then: I am fully fatisfy'd, and I hope the World will be so also. Replication or no Replication, will be equally easy to me; fince I write not for his fake, (unless he inclines to profit thereby) but for the fake of Mankind in general, who are accordingly welcome to receive it, or to make what use thereof they shall judge most proper. However, this I will also at the same time affure him, in answer to his not replying, That I likewise promise him, should he alter his Opinion in that, I intend not to trouble him or the World with an Answer thereto, unless he should write very much to the purpose, which I am in no manner of pain about; and most probably he does best to judge as he does.

But now, whatever Faults I may have found with our faid Author Mr. Chefelden, I would not therefore have such who have not appear'd in print; or in some such-like way, at least (some how attempted publickly to instruct the World) vainly to think, suggest, or imagine, that such Errors sound in him, do consequently add to their own Merit. No, no, that is by no means to be allow'd, since had they so appeared in print, who knows but that it might still have prov'd worse? Let such first fairly enter the Lists (so to stand the common Criticism

in relation to the Eye, in his Anatomy. 105

ticism of Mankind) without which I cannot imagine they have any greater Reason to value themselves, &c. Nay, I will yet go further, which is, that for all what I have here advanced in relation to Mr. Cheselden, I know not whether as an Operator, especially in that spoken of, he may not be as good as any I know. And were he, as before hinted, properly affished with the Judgment and Advice of a solid and sagacious Head, well knowing in these Affairs, I think there is no room to doubt of its being a very considerable Advantage to him, as well as to those he might have to do with.

It will then be observable from what has been here faid, the great Improvements which have been made by this worthy Person, even the most part of his Life Chirurgeon of so very noted an Hospital. As to the Affair of the Eyes, others (not of Hospitals) have generally been the most noted this way. Neither would I vainly or positively pretend to advance, that the Publication of my former small Treatife of the Eye was of any advantage to him; but I hope it was no disadvantage. I shall also obferve, that those even the most noted for the Operation of the Stone, have not always been of or belonging to Hospitals, such as the famed Professor Row, nor was Cyprianus ever so that I know. is indeed readily the most forward and bustling Genius's who have attended or feen fomewhat of fuch Operations, who generally prove to be the Pushers at the common Operations in this way, whether they be of Hospitals or otherwise.

Now, howfoever hard I may appear to have bore on our present Author, yet were I to find fault from any particular Humour, I should have express'd myself, as well as to have carried my Remarks a good way further; but if I could of him, so certainly I might likewise of many others, even

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106 Remarks on Mr. Cheselden's Observat. &c.

of Hospitals. Since it is, in short, Judgment, and a great Sagacity, which is the principal Knowledge to prevent such from committing of very great Blunders; whether they are belonging to an Holpital or in a more private way. For Example: should any young Woman happen to be troubled with some Pain, accompanied with a slow Tumour in one of her Breasts (more or less at different times) as I have frequently observ'd, and which I have often judged and found rather to be Rheumatic; or from common Obstructions of the Menstrua, than from any other Cause: Now should any of the Profession, I say, whether even a Country Surgeon, or some one or tother, still more in a publick way, (supposing such Ailment to be what you please:) in short, first salivate such Person for it, in order to cure it; and when disappointed in such a Project, next go on to cut out fuch Tumour, to wit, a great part of the Breast, (under the Notion of being of a cancerous Nature, &c. tho' without the least just Ground, as appears, &c.) when foon after the Cure or rather the healing up of the Breaft, the like Humour or Pain should thus shift, and occasionally to attend ber Stomach, in like manner as it before had done ber Breast: What could reasonably be judg'd of such a wild, injudicious Proceedure, but that the meanest Country Surgeon could scarce be capable of doing the like; far less several, &c. And having thus at last shrewdly got rid of it, so finally leave it, and is thus turn'd over to the Dollar to manage it.

Neither ought any fuch, methinks, to be overforward, in like manner, in cutting of Lips, &c. from Suspicions of their being cancerous, (more especially, if forewarn'd not to do it,) since, if not cancerous, it is to be cured without cutting; and if cancerous, it will be made worse by so doing.

I

in relation to the Eye, in his Anatomy. 107

I am very fenfible, it will readily enough be advanced, that were we to scrutinize very narrowly into the Practice of any particular, there would be no want of a sufficient Field; which is, no doubt, most certainly true. But then, methinks, should any fuch Blunders be committed in Hospitals, there is not any such room for the like Pretence. without supposing any such Practitioners ought to be better than others (according to the common Opinion; which, no doubt, they should be,) yet as they have the particular Advantage (and no doubt do) of consulting one another, not only as Surgeons, (of which there are several in all great Hospitals) but even also the Physicians: So that should such be guilty of any gross Blunders, it is furely far less excusable than in that of any private Practitioner, who rarely has any fuch Conveniency in the generality of bis Practice.

Now, should there then, in like manner, happen fuch a Case, as that Physicians as well as Surgeons are divided in their Opinions, whether a Case may be strangurious, or principally a venereal Ailment; or whether there may be an Ulcer in the Bladder: and that one Person more forward and pretending than the rest, boldly afferts, That there is an Abscess somewhere in the adjacent Parts; tho' without any the least Appearance or Symptom on the out-side, or by Tallas, &c. only because some little yellowish glary Size is voided with the Urine, after lying, during the Night there, and no otherwise. And in like manner likewise concludes, the whole to be a venereal Maladie, and curable only by Salivation: Pretending such his Opinion to be confirm'd, because of a Tumefaction in the Scrotum (without any other Symptom) which last is accounted for from the ftrangurious Ailment, or Humour being hurried down there, by forty Miles violent riding in one day, such Tumefaction immediately following there-

on.

108 Remarks on Mr. Chefelden's Observat. &c.

on: And tho' the Patient might be otherwise sufficiently gallant, yet there appeared not any the least Symptom from which it could be judg'd to be any way venereal. So that, in opposition to this forward Practitioner's Opinion, it was on the contrary judg'd to be altogether a strangurious Case. accompany'd with fuch accidental Inflammation; and that Salivation, consequently, could be no way necessary, or any way contribute to the Cure; even had there been an Abscess, as alledg'd by him; tho' without the least just Foundation thereof. Nevertheless, I say, from such a positive Perfeverance in his Opinion, together with the Approbation of others, also in the like publick Way, much accustom'd to Salivation, ready enough to give Sanction to fuch like Method with a Brother, as altogether harmless and innocent as the eating of Bread and Butter, were it for a cut Finger, &c. Thus the Patient then, having undergone accordingly, a thorough Salvation, of at least fix Weeks continuance; he found as I had predicted, the Difficulty of making his Urine still to remain, that is, he in short thereafter, still found his Ailment to be much as before the Salivation. And fo very plain appear'd this whole Affair, that instead of the foresaid swelling in the Scrotum being carried off by fuch-like Method, that fome Weeks afterwards, it came to a full Suppuration, and the purulent Matter contain'd therein. discharged it self by its Aperture there; which I imagine, plainly enough proves, that this Salivation not only rather tended to weaken or injure & tender Constitution than any good it did; but particularly hindered and interrupted Nature from doing its proper Office: As well as that this, I think, with the former, is sufficiently convincing, that the Maladie, for which he was falivated, was not venereal; fince the faid Humours in the tumefy'd Scrotum dif-

in relation to the EYE, in his Anatomy. 109

discharg'd (after the Salivation) by the meer Effect and Power of Nature, in spight of all such artificial and cross Endeavours thus used to prevent it. In sine, upon Consideration of the whole, the Salivation plainly appear'd to have done no manner of Service (if not some Injury to the Fabrick) and that there was nothing venereal, seems to be more fully proved by no Salivation or venereal Course being thereafter used, or any way judg'd necessary, for his further Relief: The same Maladie still remaining (excepting that of the said Tumour, discharg'd as before) being much in the same State of Ailment, to wit, the like Difficulty of making Urine, with the continued voiding of glary Size, &c. even as at first.

From hence, I say, any Person of Judgment, or Sagacity, may easily imagine, how much they ought to value or rely on any such Practitioners, for their Pracognition, or Prognostication, how so ever well adorn'd with Name or Title: And still yet more, especially, (when consider'd) after the having been so battled and opposed (as said) in their

own obstinate Assertion.

Thus then, should any one as noted in such like way, be as fully assured, or foretold, of the absolute Necessity of the lopping off of a Member, (to shun risk) at the same time, specifying the particular Place, where it behoved to be done; yet should such Practitioner, notwithstanding such positive Advice, make three different Loppings thereof, even in two or three Days betwixt each time, and lastly come to the very foresaid Place, so specify'd; what can we think of such, for their Knowledge, Judgment, or Sagacity?

Now, if any other such (tho' possibly not in Being at present) in the cutting for a Fistula, should at the same time, likewise cut into the Bladder, and so during Life make a much worse Fistula, with

110 Remarks on Mr. Cheselden's Observat. &c.

the Urine for ever after to pass that way: What shall or can any impartial Person then say, or judge, of the Dexterity, Judgment, or Knowledge of such,

either as to the Cutting or the Cure.

And next, I should be glad to be inform'd, what considerable Improvements there have of late, or many Years, been made in any of our Hospitals? Tis true, indeed, we are lately advertised, That there is * a very ingenious Instrument just invented, for the cutting of the incompleat Fistula in Ano. shall not chuse to dwell on the word incompleat, whether or where-ever fuch Fistula may be, fince the incompleat one of the Anus, will, no doubt, alwavs differ from the compleat one of the Nose, &c. But I should rejoice to understand that Mankind find they make speedier Cures, on incompleat Fistula's, by the Use of this new Invention, than they did before: Albeit, I must freely own, I should have thought we should still have been much more obliged to this knowing Person, had he found us out some Method for a Cure, without the Use of any Instrument or any cutting at all; which I also own, I am not of Opinion it is impracticable. Nay, I have even good Reason and Experience to believe it possible, in the generality of Cases; and if so, fuch Method, no doubt, ought first so to be attempted; which if successful, would prevent any such ill Accidents happening by cutting, as before fpoken of. Neither do I imagine, that even inward Fistula's, not to be come at, by any Instrument, are always incurable. But I shall leave speaking further of this Affair at present, since it would carry me too far, beyond my intended Purpose.

Mr. Tanner, Surgeon likewise of an Hospital was (in his Time) a mighty Pretender to fine In-

ventions

^{*} Mr. J. Freeke, F. R. S. senior Surgeon of St. Bartholo-

in relation to the Eye, in his Anatomy. 111

ventions of Instruments, &c. tho' I must as freely own, I never could observe any one of them worth the Notice.

Now, although what we have here been faving. may more particularly appear to appertain to Surgery than to Physick, somewhat even of that kind is not possibly the least applicable to the present Subject. However, this, I think, may at the same time likewise be observ'd, That Physick, and what is commonly understood to be Surgery, are, in general, fo very much blended together, and especially, in the most of these very Cases we have before mention'd, that it feems pretty hard to determine, which is which; or how the one is to be diftinguish'd, so as wholly and entirely to be separated Nevertheless, this, I think, may from the other. freely be faid, that it is the Business of a thoroughly knowing, and properly well-accomplish'd Physician, not only justly to understand, or to comprehend, but to be able also to give proper Directions, what is most fit to be done, on either Occasion distinctly, as well as when it is altogether a complicate Case, &c.

As to the quoting of Cases, generally agreed to belong to the Physicians only, it would be endless: Besides that, in most or many of such Cases, as Fevers, Small-Pox, &c. it but rarely appears very plain, whether they have in reality done good or burt. I know not if I have not once beard or dream'd of some mathematical Person, who made Calculations in the following manner: That Mankind in general might be thirty times very ill, fick, or ailing before they die once. That, but too commonly, twenty-five times in thirty Nature may readily get the better both of Physician; and that the rest of the thirty times, it may be pretty hard to determine, whether he has done good or burt. But we can die but once, as Moliere says, il

112 Remarks on Mr. Chefelden's Observat. &c.

il faut morire en form, that is, according to Custom. Yet, is it not a little furprizing, to fee how the Force, and Power of Custom has inverted the Nature and very Essence of Things? Might not a Man be reasonably and strangely amazed, to see, instead of some venerable, grave, sage-like Hippocrates, to be at the head of an Hospital; there to preside, take care, to over-see, regulate, order, and direct the deplorable Cases of the distressed Sick and ailing Part of Mankind; perhaps, in lieu of fuch Person, I fay, to find some unexperienced, fleering, or giggling kind of young, boyish Fellow, constituted or chosen there to ast this so sage, grave, and venerable Part? And this meerly, because, truly, he may a few Years have read a little of the Formality of Physick; or, perhaps, is also learned enough to put an idle Syllogism in form, and so gets a Diploma, or Certificate, from the Professors of some Univerfity (who possibly themselves, never faw, or knew, what an Hospital is) that this worthy Person, they thus recommended is proper, fit, and perfectly capable, for fuch, or the like Charge, as that of the due Care or Cure of Mankind in general, in whatsoever Degree or Sense you please. And so by this kind of idle Custom (seemingly indeed, a meer Banter or a Burlesque on such Affairs) that thus by the Dint and Power of strong Recommendation from others still, who know nothing at all of the Matter, he is so here recommended (at the common Cost of the diffres'd Poor) in reality among Friends, to learn bis Business, and to gain some Experience, but particularly to get into practice, by fuch Feather being fluck in his Cap. Whereas, a Person of the like Charge ought, indeed, duely to have run thorough, and well to understand, all that belongs to Physick or Surgery; and as Surgeons properly are but the Assistants or Deputies of the able Pbysician, so if any Dispute or Difficultys in Practice do

in relation to the Eye, in his Anatomy. 112

do arise amongst the Surgeons of an Hospital, the Physician or Physicians thereof, are (or ought to be) the only proper and competent Judges, to decide all such Differences; and not the usual Directors or Proprietors of fuch Publick House, entirely unacquainted in what relates to Physick or Surgery. But as times go, we well know, it is not fo much Knowledge that is the Question; but that it is Interest and Recommendation, that governs the whole, in Phyfick as in most other Affairs.

But without carrying our Remarks any further, on those of Hospitals, in relation to their Practice on private Persons, &c. we might probably also be able to say something of those of much superior Rank and Dignity, whether in prognosticating or operating on any Planet of the first Magnitude; but it being advis'd as the best and wisest way, to hush up such Knowledge from common Eyes; and that the Great, Powerful and Wife have approved the same as the most proper, so now

do I.

From the whole then, which may here have been observed, it may easily enough be conceived, that it is not from the being in an Hospital, or in any other dignified Station, that gives a Person Capacity, (that being natural) it is, (after having been fufficiently instructed in what he pretends to) that Sagacity and just Method of observing (not to be acquir'd but from Nature) being that alone, which will, and must render him, truly knowing, and far superiour to all others, (inferiour in this) tho' even accompanied with e'er so much Practice. which from such Defect, will prove proporti-onably indigested: which Multiplicity of Practice, as observed, goes principally, if not altogether, by meer Dint of Recommendation, or the Power of Friends; and probably, he who knows the leaft,

114 Remarks on Mr. Cheselden's Observat. &c.

whether from the Tediousness of the Cures, or otherwise he readily will make the most Money.

Yet whatfoever I may have here advanced in relation to Hospitals, it is principally meant rather to fet Mankind right in their common mistaken Notions of Things, than any otherwise intended; fuch as, That because a Person belongs to an Hospital. be must therefore be the most knowing; or that, the only or great Improvements are made by fuch. None can have a greater Opinion of Hospitals. (when well conducted) or of fuch Charities, than my felf: Neither are there many, I may, I believe, fay very few, who can equally pretend to brag, of having feen the Practice of fo great a Variety of Hospitals, as I have done; having spent considerable time in those of France, Flanders, Italy and Amsterdam. I have then observed, that an Hospital is a good School for Youth to learn (at least) the Generals of their Business, in not having otherwise seen a Sufficiency of Practice; especially in Surgery, albeit that in all fuch Places they have little else than a somewhat over general Rotin, three or four usual Medicines administer'd, in most Physical Cases, with a pretty quick way of passing the Sick over: and so in Surgery, it is nearly alike; and they but very rarely go out of that general Road for any Particular: If it bits, 'tis well; if not, there's an end, dead or discharg'd. I should be glad, I say, to be instructed in the Improvements made in ours, during our own Time; I am very sensible, that great Interest is commonly made to get to be Physician or Surgeon of 'em; by fuch, especially, who are too commonly Novices, or who have feen, or had, but little Experience in Practice; by this Means intending to acquire some, as well as thereby to attain to the Feather in their Cap, fo to acquire lucrative Practice, the principal Affair in question: For as to

in relation to the Eye, in his Anatomy. 115

the Improvements they make, or the Instructions they give to the World, that feems to be the least of their Business. Improveable sagacious Genius's, who have had proper Education, will still improve, tho' never in an Hospital; and those who are not so, will never improve, (to any purpose) tho' all their Life-time there. Thus, some of our most eminent Practitioners we might name, as Ratcliffe (I think I might add * Boerhaave also) besides many in our Time; Shipton in Surgery, &c. who never belong d, perhaps hardly ever properly to have seen an Hospital. Nay, I am inform'd that the last named, never ferv'd any eminent Master, but by the Dint of Reading and Industry, is accounted amongst the first. The World is as much improved (at least) by these, as by those of Hospitals. Nor would any fuch, or others in great Practice, accept of any Hospital, because they have found they could do their Business full as effectually without: And thus, those of Hospitals drop 'em, when they find they have fufficient Business otherwise; neither is it to be expected, that in such a hurried way, as that, betwixt an Hospital and private Business (efpecially in this great Town) that great Improvements are to be made. Neither is it in very great Hurry of Business in any way, that it is hardly ever done +, fince proper Observations require a due time to digest them; and such who do make them, will readily produce fome fuch Fruit to the

* No Hospital in Leyden, unless we term it so, where 4 or 5 ailing People only, are attended by different Physicians in their common Turns.

[†] Much Practice is got by being much in Publick, or with Mankind. Observation and Writing requires Time and Retirement. In fine, to do well, there ought not to be too much of one or tother.

116 Remarks on Mr. Cheselden's Observat. &c.

World. So that the greatest Improvers, the best Writers, have rarely, or ever been the greatest, or most burried Prastitioners. Thus a Person may as well have too much Business or Hurry, as too little, in regard to his real Knowledge and Improvement, or that of the Benefit and Instruction which Mankind do truly reap thereby; such wanting, I say, time proper, (if not Capacity) to digest their Practice, and to correct their Blunders.

It may not be yet altogether improper I further add, in relation to the Affair of the Eyes. that what I know of that Affair, has been more owing to my own Application, Reading, Industry, Practice and Consideration, than to what I have feen or learn'd in Hospitals: And I do at the same time as freely own, that I never learn'd from, or ever saw any of these call'd Oculists, to perform an Operation; neither could I ever in the least imagine it to be worth my while so to do (especially fince my * Application thereto) only to have feen ridiculous Operations perform'd, by any such ignorant audacious Pretenders, fince I was well fatisfied of what was practicable, or possible to be perform'd with Success, by the Power of Art. Who, indeed, in their Senses, would choose to be a Testimony, or to countenance such audacious forward Undertakers, in their putting out the Eyes of Numbers of ignorant, poor People? So much, (instead of that) deserving the severest Resentment of

Nor can I see why Physicians should not make this as necessary a Part of their Study, as any, unless it be, that they judge it too nice and difficult a Study to attain to any considerable Knowledge therein: And so chuse principally to apply to such Part, or Maladies only; as those, where, it is hard to say, whether they have done good or hurt; in a word, which Nature herself principally cures, or that the Patient die.

in relation on the Eve, in his Anatomy. 117

Men of Knowledge, if not even that of the Publick: And still, I cannot well forbear to add, that in whatfoever manner I may have attain'd that which I know, I readily own, I have the Vanity to flatter my felf, that I know not less (at least) of this Affair, than any abroad; and as for those here at home, I have, I think, fufficiently taken notice of the most noted of them, and of their Knowledge. mistaken in my Opinion, they are welcome, whether at bome, or abroad, to demonstrate to the World and me, that I am fo. Nay, fuch Knowledge indeed, is what fuch who pretend to understand as a Physician, that is, to an universal Knowledge of the Maladies incident to human Bodies. should be master of, or indeed what every one such ought to understand, who pretends to know or give general or particular Directions, whether for that of the Cure of inward Maladies, or that of the advising and directing of the proper Operations, &c. as he shall observe to be necessary. Nothing furely can appear to be more fupid and ridiculous; or that can more fully demonstrate the Ignorance of such common Practices, such an idle way of Thinking, than that, for Example, of a Gouty, Rheumatick, or other like Ailment, lying growling inwardly on the Brain, Stomach or Bowels, being then call'd by a different Name, and accordingly supposed to be a different Maladie, as that of a Cæphalagia, or violent Head-ach, swooning Fits, Stomach-pains, Cholick, &c. at which time straight send for the Physician; whereas, no fooner is the same Humour thrown into the Surface, or the Extremities, in Inflammations, Tumefactions, or other muscular or cuticular Appearances, than it is straight send for the Surgeon; when the same Humour (or even but scrophulous, or

118 Remarks on Mr. Cheselden's Observat. &c.

or venereal, &c.) appearing in the Eye as that of an Ophthalmia, then be fure fend for the Oculist. Thus I have been surprized to observe, some of our noted Physicians having attended a Rheumatick, &c. Case, and the Patient recovering of fuch Ailment, fome part, however, of the Humour has shifted to the Eye, occasioning a violent Ophthalmia, endangering those Parts, have then cry'd, (possibly finding a little difficulty.) Have Patience, Sir, it will go off. Is this then a way of talking for Men of Knowledge? Yes, faid I, fo it will, or you'll be blind. And fo would your other Maladie also have gone off (of it self) or you would but have died, that's all: For, indeed, all or most we do, that I know, is but with greater Safety or a little sooner to belp off a Maladie.

And now I shall take notice, that as to writing in the way of Professions, particularly in this of buman Maladies, it can only most properly be judg'd of, by those of the Profession: which Writings are but too commonly represented, by the pretending (perhaps, fometimes, even by the more learned Scioli) with an invidious Eye, and if bad, such unlucky Performances are then, no doubt, for ever damn'd. As to fuch who have writ, they, indeed, are entitled to speak freely their Sentiments of a Brother-Writer, being they, as well as he, must stand the usual and common Fate, of being baited or shot at as common Marks. Now, he who takes his Turn, thus to stand, another has some Chance to hit him in his Turn, and thus to do himself Justice: But it is the private, lurking, pickerooning Murderers, who dare not openly appear, who are the most dangerous and burtful; and tho' fuch were to be muzzled by the Le-

in relation to the EyE, in his Anatomy. 119

Legislative Power, yet even then, a Shrug of the Shoulder, or no Answer (when ask'd) would still readily wound as much, if not more, than plain Words, which may often and properly be replied to, by such who bave ask'd their Opinion of an Author.



SOME

I 4



SOME

NOTES

O N

Dr. P. SHAW'S Maladies of the EYE,

IN HIS

Practice of PHYSICK.

TAVING had the Curiofity, or rather by Accident, looking into Dr. P. Shaw's new Practice of Physick, more particularly into that part relating to the Eye, to fee what might be there obferved, either new or useful, in that way; I own, that I was not a little furprized to find a Person to undertake fuch an Affair, with so little Foundation of this kind: Neither had I, indeed, Patience enough, or Inclination to peruse the rest, after that, which I observed on this Part. To attempt, or pretend to instruct Mankind, when so very deficient, so little knowing in such like Matters, (thus leading them into Error only, so to do more Mischief than good) is greatly amazing. If he acquired no better Knowledge of fuch Affairs in bis Studies, or Practice, ought he not, at least, to nave consulted the best Authors on such Subjects? If

If Boerhaave and Sydenham were his chief Instructors, who were surely weak in this way, at least the former Professor (he studied under) could have instructed him in the Books, proper to be consulted on this Head; his Book appearing to me, to be formed on a very indifferent kind of Model, whosoe'er it is he has used for that purpose.

But I am sensible, it is advanced by his Friends. in his Behalf, that it is feveral years fince it was writ, and that this of the Practice, is the very worst of all his Performances, &c. I hope, indeed, it is the worst, and that his others, are far better, (fince, I think truly, they had need to be fo;) but the former Excuse of their being long time fince they were writ, feems to be of no Validity, being we have a new Edition thereof but very lately published, with little or no Amendment. Whereas an Author is, no doubt, still accountable to the Publick, for his Performances; more especially when they appear in reiterated Editions; fince they ought there, no doubt, to be amended by the Author, if capable, or by Supplement, &c. shall here then produce only, a short Specimen of the Oddities, contain'd in this Part I have look'd into, which may ferve to prove to him, how much that Performance requires to be re-modelled, or, at least, revis'd. Since to enter narrowly, so to examine even this Part, (far less the Whole) would require too much time; for which Reason I must beg to be excus'd that Labour. In the mean time. if this should any way serve our Author, as somewhat of a Model to examine the rest by, I am satisfv'd.

Our Author then, begins the Diseases of the Eye with the Ophthalmia; I shall not trouble the Reader with his Definition, or his Signs thereof; but in short observe, that his principal Advice and Prassice, (but too common with the Generality

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122 Remarks on Dr. P. SHAW's Maladies

lity of the Profession) is to use all the Evacuations of the Body which are known (a Knowledge eafily, and very soon attain'd to:) And then as for the rest of the Maladies of the Eye our Author treats of, he, in general, refers you to the Cure as in Ophthalmia: So that the principal, if not the Whole, in all Cases, seems to turn upon what Moliere observes, Clysterium donare, ensuita signare, postea purgare, & encor, & encora signare, purgare, vesicare, &c. This might, perhaps, be sufficient on this Subject; however, since we have begun, I will yet for the surther

our Reader go on a little further.

In Albugo, & Pterygium, page 40, our Author fays, in this, Proceed as in Suffusion; and in this Last (as has been observed) he refers you to proceed as in Ophthalmia. After this, in the next Page, in his Definition of Suffusion and Cataract, he says, a Suffusion is a thick Foulness, or Excrescence of the Tunica Cornea, adnata, or aqueous Humour, which when confirm'd makes the Catarast. How! quoth he? of the Tunica Cornea, adnata, or aqueous Humour, which when confirm'd makes the Cataract. This is altogether a new Doctrine, I frankly own, and that I am quite at a loss to comprehend. A thick Foulness or Excrescence of the Cornea, adnata, &c. the Catarast! This furely requires our Author's more full Explanation, with a Witness. After this, he is pleas'd to observe to us, that a Suffusion seldom affects both Eyes; or, if both, not togetber, or in the same manner. Ay indeed! I pray who informs him of all this? I would advise him never to credit fuch another time. Well, but then he likewise acquaints us, that the Suffusion or Cataract extending fometimes, says he, over or between the Cornea, and adnata. A very notable newfashion'd Cataratt truly, which no Man, I dare fay, has ever heard of before. This extraordina-

of the Eye, in his Practice of Physick. 123

ry Piece of Information, I doubt not, he may have had from the same Hand with the former; but I wish he'd be advis'd never to believe 'em more. Old People, fays our Author, are not to be couch'd. A fad Man, who thus imposes on this good bonest Writer. Now, as to Children, he is there also pleased to speak of, I wish he had mention'd to what Age we are still to understand them as fuch: not to be couch'd? He gives us various Prescriptions in such like Cases, (of Suffusion and Cataract) and in particular (after the Method as in Ophthalmia) he advises as very serviceable the corrosive Sublimate per se; but 'tis more expeditious, says this Practitioner, To touch the Part frequently with Vitriol. Roman. or even with the Causticum Lunare. Here I cannot forbear fending our Author's Correspondent or Instructor, to the D---- l to practise upon. In Gutta Serena he recommends the Method likewise used as in Ophthalmia; but if fuch Measures, he there lays down, prove ineffectual, he lastly advises the use of a Salivation. This in Atropbia, which he here feems to allow, or when there is the least Tendency to Paralytick Disorder, the common Calamity in those Cases, is consequently a Practice only fit for the foresaid Gentleman. Vid. my Ophthalmographia on this Head.

The Disorders of the vitreous Humour, he refers, as the former, to Ophthalmia and Gutta Serena: And this latter, is again referr'd to the former, that is to Ophthalmia; and as for the Malades of the Crystalline, which he terms the Glaucoma, he as yet refers you to Gutta serena and Ophthalmia. Myopia is, for its Cure, likewise referr'd to Ophthalmia. The Cure of Mydriasis is also, according to him, to be treated as Suffusion or Ophthalmia, in page 51. Here our Author's Instruction seems to be as bad in supposing the aqueous Hu-

mour

124 Remarks on Dr. P. SHAW's Maladies

mour or Extravasation, as he terms it, only soon to be recruited in (Infants) or Infancy.

I must likwise give this Writer over, as before, in his Salivation for the Cancerous Ulcer, in Hypopyon. As to the PhlyEtana, these small Puffles, their being less dangerous in the Cornea than in the Adnata, as he tells us: this is also a Doctrine I do not understand. The Cure, he next acquaints us, is entirely the same with that of Hypopyon, a great Novelty also: But in the same Page, he informs us, if the Ulcer is in the Cornea, it is harder to cure, than in the Adnata; and that the Cure is the same as that of the Hypopyon. He observes in the same Page, and says, That a Solution of Continuity bappening in the Cornea, lets out the aqueous Humour upon the Uvea. This also wants a little further Eclarciffment, for the good of Mankind: And thus far, as to our present Author; this, I hope, being sufficient for a Specimen in this way. How much more knowing others may be, who have not thus appear'd in Print, is what I shall not pretend to decide: But 'tis certain, that there are very few of the Profession who refuse to undertake or to dabble in these Affairs, tho' they know nothing at all of the matter; yet they, 'tis likely, may be endu'd with a Sufficiency of Affurance, Pretence and technical Terms, in this way; fo to make the Ignorant to credit they know fomething. How many Blunders of this kind are there not committed, even by some much reputed, Gc? For example, What shall we say (as hinted at in our former) of fuch a stupid Practice, (used by Physicians, Surgeons, &c.) as that of the Powder of Glass, for the taking off Films, Specks or Excrescences from the Cornea? Might not Surgeons just as well use ground Glass, or Sand for the taking off Excre/cences, or proud Flesh from other Parts of

of the Eve, in his Practice of Phylick. 125

of the Body, inflamed or fore? especially if well rubb'd with a Stick; which, I doubt not, foon to hear of being practis'd for the Eyes, by fuch great Improvers of Practice: But before I as yet leave those so reputed as Regular Practitioners, I cannot omit the taking Notice of one in great Practice and Repute, remarkable enough for brushing into fore and tender Eyes, with a heavy Hand, a greafy old female Liniment. Yet this is nevertheless to be kept as a wonderful Secret, (by this regular Practitioner) from all the Scioli of the present Age: Nor has it ever been discovered to the R. S. even among all the great Discoveries which have been made them by the learned World these forty Years; but it may, perhaps, be discovered to them by way of Legacy. In the mean time they may use Oil and Lapis Calaminaris, with Minium; which will do as well, (probably the fame) or the Ointment of Tutiae, which is, in my Opinion, far better, having had the Experience of both. Thus Nature will often recover Eyes and other Ailments. even with the use of meer Trifles, or nothing. Nay, not only get the better of a heavy Hand, but even of Bear-Garden Fifty-cuffs also. And now, can any one at the head of the Profession, or of the C--- of P--- pretend, during Life, to make a mighty Secret of fuch ridiculous Trifles, (used on most occasions in this way) this notable Receipt, borrow'd from some honest dottorising Female: And is this then what all our prest Learning comes to? or that of the R. S. or C--- of P---: And is any one as yet at the head of any Profession, to make and to use such, or any Nostrums? Or, does even the Profession, as yet, countenance such like Proceedings? Yes, truly, fo it feems; nay, even the Pharmaceutic Tribe likewife, whether from Bleffings or Gettings;and

126 Remarks on Dr. P. SHAW's Maladies

and thus the World goes on. I have before observed how idly and fimply many of the Regulars of the Profession have followed that pretending noisy Oculist T-r, without the least Rhime or Reafon, attending to his most nonsensical, impudent Pretensions, thus fairly confessing their little Skill, Learning or Knowledge, in these Matters: And will it not seem still more strange, if professed Oculists as B---, &c. who have even ferv'd or learn'd of a very greatly pretending Cb-n in these Affairs, who in France also pretended (as T-r did) to write in this way, tho' endu'd, indeed, with fome School-Learning more than the former; vet, in reality, the Performance not one bit better, being only a Parcel of downright Quack Bills of his Cures, which he there hurstled together, without the least Use or Instruction to the Publick, fuppoling his Relations to have been Fatt. His Eleve then, I say, sufficiently prov'd how much he knew of this Matter, in running after fuch as T—r to learn of him. The good Woman in New-street, and that in the City, &c. shew'd themselves wifer, and more knowing, than to attend any fuch; which good Female, I fay, can thrust in a Needle, or depress a Catarast, even as well as they can. Thus, indeed, it is, that some fuch, who know in reality, very little more than to thrust in a Needle, and (for better or worse) to beat down a Catarast, or a little further pretending to some Eye-water, or Salve, they thus straight consider'd by the untbinking Multitude, to be truly knowing, and greatly fit to cure all Maladies of this Organ; and so are employ'd by fuch accordingly, as their Oculift, &c. (until they have paid for their Experience.) There are. few who consider, what this Knowledge or Study truly

of the EYE, in his Practice of Physick. 127

truly is; nor do they know that a Person of common Capacity may be brought to perform this Operation in five Minutes time, by one who can couch: But, indeed, the great Secret in this Affair, is, the true Knowledge, when and which, are the most proper to be couch'd, and which those that are not to be tamper'd with? an Affair, few or none of all these pretending People, are any way acquainted with. But Mankind must e'en go on to venture, and risk their Eyes as usual; or as they shall think fit, it being certain they most commonly like those the best, who know least; and are confequently, those who promise the most: It is also certain, that such like pretending People, are commonly ready and bufy, still to be doing; and thus rather doing Mischief, than to do nothing.

In fine, it feems almost full time I should finish these Considerations, and thus now leave the Reader to observe the Advancements which have been made in this way, by our present, or any of our foresaid Authors I have mention'd. I cannot, however, but at the same time own, that Dr. Porterfield seems to have been the most painful, in his speculative Attempts, (reading and compiling from the most noted Anatomists and Authors) to advance somewhat new; yet it appears not to me, to have answer'd the true and useful Intention. In a word, if upon the Whole that I have writ, what has been faid, be all the Virtuosoship or real Knowledge produc'd in this way, methinks fuch might even as well employ themselves, and shew that they are knowing Virtuesi, or greater Connoisfeurs in some one, or any other way: And if I may have acquir'd any fuch Name in any other way, (tho' possibly not well deserving it) I must nevertheless frankly own, I do not, nor can

Remarks on Dr. P. SHAW.

128

I promise to remain, entirely confin'd from the Desire of Knowledge in other ways, or sometimes that of other more private Amusements, productive of Knowledge, &c. tho' it may at the same time be observed by this, whether I have forgot, or that I am ignorant of the present Subject.



SOME



SOME FEW

THOUGHTS

O N

Dr. J. JUR IN'S ESSAY

UPON

Distinct and Indistinct Vision,

Contain'd in

Dr. Smith's System of Opticks.

Pon the Appearance of two Pieces which came out (after my foresaid Discourses were in the Press,) to wit, that of the Physician, the other of the Surgeon of the same Hospital; which last acquaints us with the great Improvements made with them, &c. I begun to be in some doubt, whether what I had before said, in relation to the inconsiderable Improvements which have been made, might not be necessary to be recalled; or, that I ought to make some Apology for the same. But on looking into these Authors I concluded, that I might even let all stand, thus maintain my Ground, and still go on with the same Assertion as before: However, it may not be amiss, for the further Satisfaction of my Reader, I take some notice

tice hereof, tho' in a curfory Manner, both on account of my deficiency in Time, as well as, that.

to me, it feems to be all is necessary.

This learned Person, Dr. Jurin, seems to have been at a great deal of pains to instruct the World in the speculative Part of the Eye, the Theory of Vision. We are indeed obliged to him for his strenuous Endeavours, and wish it would answer the Author's Intention, the Good of Mankind, and that of bis own. I was indeed in hopes that this knowing Gentleman, as being, or having lately * been Physician to an Hospital, would rather have obliged us with practical Observations, than to amuse Mankind with fuch very speculative Subjects, as this of variously ranging of the Rays of Light upon the Retina; and which, I think, he acquaints us also, he is greatly, or principally indebted for, Dr. Smith, in his Letter to him. Now, this Subiect, I say, having already been so thoroughly handled by Newton, de la Hire, and Marriot, as well as most of the Opticians, &c. it seems therefore less necessary than that (as observed) of the practical Part; and fo for our Author thus rather to have left these speculative Thoughts, (if not already fufficient on that Head) which at best are but Opinions (too often very uncertain) to have been more finish'd, or labour'd, by such who make it their particular Study, and have all their Time to spend in deep Speculation.

There appears a Book lately published upon Colours, (by one Place) who denies all manner of Rays of Light, &c. He seems, indeed, to be a very odd, and a quite out of the common way Author, (few, possibly, will, after slightly viewing him, have the Patience to read him out;) yet I freely own I have read him over, and tho, no doubt.

Or lately, or some time was so.

doubt, extremely extravagant in his Way, and out of the common Road; yet I must at the same time own, that there are, I think, fome Thoughts in him which still deserve notice; nay, even to deferve an Answer. For my own part, I have hitherto also said, and gone on in such speculative Subjects, according to the modern establish'd Opinions; yet I cannot but at the fame time own, that there are still several Difficulties appear to me not to be well refolved, even in our very best Theory of this Subject; and 'tis well, if the best of these Opinions, not yet so very fully confirm'd by unquestionable Facts, be not still liable to change, as others have been before, from the Beginning of the World to the present Time; and as they probably will be so to the very End thereof.

But it is not unlikely, that our present learned and ingenious Author Dr. Jurin, may be apt to advance, in relation to the being at so much Pains, in exactly ranging of the Rays of Light or Objects upon the Retina, that this was necessary and principally intended as Introductory, thus illustrating and more fully proving what he thereafter advances, as to the Necessity and Power of altering the Conformation or Figure of some particular Parts of the Eye, in order to see more distinct. ly at different Distances. We shall not then call in question how very absolutely necessary all that Discourse there laid down might be, even in that Case (before the certain Proof of what was so requifite for that purpose;) but we shall now rather choose more particularly to examine how our prefent Author succeeds in this last; more especially, as to those principal Parts he speaks of suffering fuch Alteration, to wit, the Cornea, Ligamentum Ciliare and Crystalline.

K 2

132 Some Thoughts on Dr. Jurin's

In the first place then, I am not a little surpriz'd at this fo learn'd Gentleman's Account of these Parts, as if quite deficient in having read or convers'd with the best esteemed Anatomists on this Subject. Our Author, in describing the Uvea, is pleased to tell us, That meeting with no Satisfaction in any of the Hypotheses above related, I applied my self to a diligent Consideration of the Parts of the Eye.——Very well. The Uvea (fays our Author) is a muscular Membrane, and as such is capable of contracting it self into less Dimensions. It arises from a circular Ridge or Protuberance running all along the inside of the Cornea, at its Juneture with the Sclerotica, which Ridge I do not remember to have seen hitherto taken notice of by any Anatomist. I know not, I say, who it is this learned Author has either examin'd or convers'd with on this Head; but my Words, in describing that Part twenty five Years ago, in my Ophthalmographia, run thus, page 14. The Ligamentum Ciliare arises from a little circular Process or Coronet, which makes a Partition to the Choroides and Uvea; it likewise adheres with its Circle, where the opaque Sclerotica and transparent Cornea meet; from bence it forms a delicate Membrane, which runs upon the outside of the Glassy Humour, or from the Circumference to the Centre; that is, from this Coronet to the Crystalline. These then are my Words, even at that time of day; and yet then, so far from my pretending that such Ridge, Protuberance, Process or Coronet had not been before discovered, or taken notice of by any Anatomist, that I hardly then knew, or do I now of any of the Moderns, especially those worth reading, who do not mention and particularly describe it; nay, I question whether it be not even taken notice of and described by fome of the Ancients, which I cannot think they could well miss: But it seems not greatly material and

and necessary the turning over many Books, in order to quote how many have taken any notice thereof, since I think it is fully sufficient for me, that I have clearly mention'd it, and distinctly described it. Now, Would then the Dr. willingly have imagined himself to have been the first Discoverer hereof? Or, would he, that the World had been so good as to have taken it so? Let us next then a little examine, how very just and knowing this accurate Author is, after his diligent Consideration of the Parts, in the describing, and the Situation of them.

In speaking of the Uvea, he says, it arises from a circular Ridge or Protuberance running all along the inside of the Cornea, at its Juntiure with the The knowing Reader will here be able to observe how our Author strains this Point in Situation, ingeniously to make it the better suit his own Purpose: And therefore, I must, and do absolutely deny this Account of his; neither do I believe that he can bring any tolerable Authority for his fo faying; or, indeed, it feems evident to me from this Description, that this learned Person has never discovered it either first, or last; or if he has feen it, and, as he fays, diligently consider'd it, he must, as I have said, incline much to make it serve bis Scheme and Purpose; without which the whole Fabrick thereof is undone. My Words then, are as before mentioned, page 14, it adberes with its Circle where the opaque Sclerotica, and transparent Cornea meet: But now it seems necesfary I should explain my felf as yet more distinctly, and fully, on this Head; more especially since our learned Author feems to lay great Stress upon this Affertion according to him. I do now then positively affert and affirm, in direct Opposition to his Account, that this Ridge, Coronet or Partition to the Choroides and Uvea is adherent only, and pro-K 3 perly perly upon the opaque Membrane Sclerotica, and not on the transparent Cornea; it being, if I may be allow'd the Freedom of the Expression, the Partition-Wall, the Termination of this opaque Tunic, and only properly adherent, arising, or built on the Extremity thereof; and altho' tis true, that the transparent Cornen do immediately join thereto, yet it is not placed thereon, which, if it were, fuch part must necessarily thereby be render'd opaque, and consequently become a part of the Sclerotis. I might illustrate this with Authorities from Authors likewise, were that necessary, as to the particular Infertion hereof, did I not my felf sufficiently know it to be so, as well as from the very Reason of the Thing: And this then proving to be an undoubted Truth, the whole Hypothesis of this learn'd Person, as has been said, must necessarily fall, as we shall observe more particularly hereaster; and yet. I must at the same time remark, that this of the placing fuch Ridge or Protuberance on the transparent Cornea, is, I dare answer for it, what has not before been seen, or bitherto taken notice of by any Anatomist *.

The next Contrivance, or subtile Piece of Machinery, this ingenious Author is pleased to invent for us, is to turn this Ridge into a Muscle, by whose Rope or Pully he may accordingly move his Machine at pleasure. Now, in answer to the inquisitive Question of the Curious, How this is prov'd to be a Muscle? The Reply is ‡, That the Uvea is furnish'd with a narrow Ring of circular muscular Fi-

‡ Page 138, Article 129.

^{*}Dr. Nichols feems indeed somewhat inclinable to favour our present Author's Opinion, in relation to his Description or Account of this Particular; to wit, that there seems to be a Limb, or Edge of the Cornea, which lines the inner Edge of the Sclerotica. Yet alas! even admitting this, we shall be ne'er a Hair the nearer than before, by this Tunic being so lin'd; rather worse, the said Sclerotis still remaining, and consequently still the same Difficulties also, as we observe hereafter.

bres on the Edge next the Pupil: That is, he allows it to be suspected or imagin'd only, not prov'd. So by the like Rule, the Doctor supposes his Ridge to be a Muscle alsa. I shall therefore, says he. make no scruple of qualifying this Limb of the Uvea next the Cornea, by the Name of the greater muscular Ring of the Uvea. —— It will, perhaps, be objetted to me, continues he, that the Existence of this supposed greater muscular Ring bas not yet been proved by ocular Demonstration. I answer, neither has the Existence of the lesser Ring been yet proved in the same manner. Extremely well, truly: And, now, by the same Rule of the Invisibles, or the meerly Imaginaries, I should likewise suppose (to serve my Purpose) as yet a third or middle Ring, betwixt these two; What Rule is there, Reason or Proof, that it is not to be allowed, as well as that of our Author? Or, supposing I was to deny all of them, and to allow none fuch as either, How then? And yet, I must again observe to him, that there is no manner of Comparison to be made, betwixt that of bis, and that of the inner or leffer Border of the Uvea, as he is pleased to term it; fince it is visible by ocular Demonstration, that this fame inner Edge or Border of the Uvea or Iris is apparently contracted or dilated, whether as being a proper or distinct Muscle of it self, or only, as a part of the Uvea; which last, does not appear the least probable. Thus, then, it is plain, that our learned Author has no fuch Visibility or Demonstration on his side, but entirely Supposition and Imagination: But the Doctor by way of some Anfwer to this, would feem there to advance, That the Change of Conformation in adapting the Eye to near Objetts, is not less demonstrable: But without dwelling here, we shall at present proceed. Page 139, Article 130. The Crystalline Humour is con-K4 tain'd

tain'd (fays our Author) in a very fine membranous Capsula, with a Water between them, after the manner of the Heart in the Pericardium, This, I take (continues he) from the Observation of the late Anatomist, particularly, the famous Mons. Petit *. But this alas! was observed by me in my Ophthalmo-graphia, at least seventeen Years before this Author writ his faid Memoire. My Words are, page 20,--its Coat, I think, being something to it, not much unlike the Pericardium. - Well, but the Doctor probably was more willing to be obliged to a Foreigner for it, than to any one on the Spot +. But now fince he follows Petit, and that Petit fays it but seventeen Years after me, I will now unsay it again; that it is not like or after the manner of the Heart in the Pericardium; nay, that it scarce has any Similitude thereto; since the latter is not only pierced in five different Places, (which the other is not any where) for the Passage of the great Vessels to the Heart, which sustain the same, as also that of its being tied to the Mediastinum and Pericardium, as well as Difference of Shape of one and t'other; and that the Water contain'd in the Pericardium, is only towards the Bottom thereof; whereas that in the Aranea or Capfula of the Crystalline is equally round that Humour; neither is this faid Body any way adherent to this its Capfula or Membrane. The Doctor in the same place goes on thus, From whom (to wit Petit) I must likewise observe ", That

Memoires de l'Acad. Royale, 1730. | ibid. p. 436. † This, with the Paragraph before mentioned (of the Ridge or Coronet) 17 Years printed before that of Monf. Petit, and fo quoted from abroad by our Author, (from him) would, I doubt, appear to some, as shewing somewhat of a Tendency, or Inclination, to the much approved Doctrine of sinking of Authors, who are on the Spot; excepting where there may be some mutual Inclination to the tickling of one and t'other.

That the back Part of this Capfula, or that Part which invests the hinder Surface of the Crystalline Humour, adheres to the Membrane enclosing the vitreous Humour.—My Words then, at the same time, in the foresaid Treatise, are these, page 18, speaking of the vitreous Humour. -- It is certain, that its Membrane or Coat is not only continued or adherent to the Ligamentum Ciliare, but likewise to the Tunica Aranea.—A little further,—This Membrane (Aranea) adheres to, or is continued from the vitreous Tunic and Ligamentum Ciliare: --- And again, page 19, its Tunica Aranea, being continued from the vitreous Tunick, and the Ligamentum Ciliare. As to the Doctor's describing the Crystalline, which he also takes from the same diligent and accurate Anatomist, its being two Segments of unequal Spheres clapt together on their plane Sides, --- I say page 18, -it is convex on both Sides; its Backfide towards the vitreous, is much more convex than the other; which last Distinction, I know not that our Author, or his Leader do make. Article 131. The Ligamentum Ciliare is a Muscle, (says our Author) which, however, before such positive Assertion, it had not been quite, methinks, improper to have proved it so to be, for the further Satisfaction of his Reader, or fuch who may oppose that Opinion.

This same Section he goes on in describing the said Ligament; It arises close behind the Uvea, from the abovementioned circular Ridge at the Juncture of the Cornea and Sclerotica, and running over the outter Edge of the vitreous Humour, is inserted all round the anterior Surface of the Capsula, upon which, says Monsieur Petit, this Ligament prolongs its Fibres.—My Words, page 14, in the foresaid Treatise, run thus, The Ligamentum Ciliare arises from a little circular Process or Coronet, which makes a Partition to the Choroides and Uvea; it

likewise adheres with its Circle where the opaque Sclerotica and transparent Cornea meet; from hence it forms a delicate Membrane, which runs upon the outside of the glassy Humour, or from the Circumserence to the Centre; that is, from this Coronet to the Crystalline.

But now we have pretty well nam'd our Tools, or got our Machinery into some fort of Order, it feems almost time, we should next begin to set them to work; tho' I must beg my Reader's Pardon, if, for want of time, as well as shunning a tedious Account, I only use so much, in general, as serves the present Purpose, thus shewing the Invalidity of the whole thereby, and so refer (to fuch as incline it) the further Perusal of the rest to his own Account. His Words are, Art. 133, 134. When we view Objects nearer than the Distance " of fifteen or fixteen Inches, I suppose the greater " muscular Ring of the Uvea contracts, " thereby reduces the Cornea to a greater Convexity; and when we cease to view these near " Objects, this muscular Ring ceases to act, and " the Cornea, by its Spring, returns to its usual "Convexity. When the Eye is to be suited to greater Distances than fifteen or fixteen 44 Inches, I suppose the Ligamentum Ciliare to " contract its Longitudinal Fibres, and by that " means to draw the Part of the anterior Surface of the Capfula, into which these Fibres are inferted, a little forwards and outwards; and at the " fame time this is done, the Water within the " Capfula must necessarily flow from under the middle, towards the elevated part of the Capfula, and " and the aqueous Humour must flow from above "the elevated part of the Capfula to the middle; consequently, the middle part of the anterior "Surface of the Capfula, must a little sink, while

the other is elevated, or the whole anterior Sur-44 face, within the Infertion of the Ligamentum "Ciliare, must be reduc'd to a less Convexity." From hence it may be observable, that this ingenious Gentleman makes not only the Ligamentum Ciliare a Muscle, according to Dr. Porterfield, but he still gives a much greater Power and Use to it. in also depressing the Crystalline, by means of its Capfula, &c. which, if we are not to suppose sufficient of it felf, yet, at least, is so reduced by the Water therein contain'd, on the Contraction or Motion of the faid Ligamentum Ciliare, with the aqueous Humour from above as before mention'd. Thus the Opinions of the flattening of the Crystalline, with that of the muscular Motion of the Ligamentum Ciliare, are both join'd here, as well as that occasionally of the Cornea, for the proving more fully, Distinct and Indistinct Vision at different Distances. I think there is hardly any occasion for my taking farther notice of the two first, to wit, that of the muscular Motion of the Ligamentum Ciliare, than that I have already mention'd in depressing of the Catarast, in the Discourse relating to Dr. Porterfield's Motions of the Eye; that of the Alteration of Form, or the flattening of the Crystalline, by the same foresaid Rules and Reasonings, likewise falling in course. Now, as to the contracting of the Extremity. or Edge of the Cornea, so as to render this Tunic (occafionally) more convex, we have observed, that the Doctor has judg'd proper to turn the Ridge or Protuberance before spoken of, into a Muscle, to support his Hypothesis the better; and so to term it by the Name of the greater muscular Ring of the Uvea. But then I must observe to this very learned and ingenious Person, that I differ greatly with him in the Anatomy, Situation, or Insertion of these Parts, (as has been hinted) and of this Ridge in parparticular, which he is pleased to place on the transparent Cornea; whereas I place it on the Sclerotica, and that of the Ligamentum Ciliare still more fo, as lying rather more backward, which he, however, also places as the former, on the Cornea. Now, if so, as I affirm it to be, (which must be referred to the most accurate Writers in Anatomy. or to the Examination and Inspection of the best Anatomists) if the Thing do not prove it felf, from Reasons before mention'd; in such Case, I fay, supposing this my Assertion to be Fact, the Cornea cannot then be drawn in and contracted, or rendered any way more convex, as mentioned by our faid Author, unless he advances, that even admitting it to be as I have faid, inferted on the Sclerotica; yet still supposing it that way, by the Edge of this faid Tunic giving way, so the Cornea immediately joining thereto, would also thereby be rendered more convex: But then I would oppose the great Rigidity of that Tunic sometimes happening, (as observed by him) or as yet I would suppose the entire Offification of such Circle, if not of that whole Tunic, as observable in some Animals: This, I say, will consequently destroy this System entirely, and all this very learned Author's mathematical Reasonings, and various Calculations thereon, will fall in courfe. We might probably be able to bring further Difficulties, as to the Thickness of the Cornea in some Animals, as well as its making a greater part of a Sphere, &c. but I imagine I have here already faid sufficient, on the Improvements here made, more especially since were more necessary, I am call'd upon to have done.

As to the Opinion this same learned Person gives us of Dr. Pemberton, to wit, "That to suit the Eye to the nearest Objects, one Surface of the Crystalline is to be rendered more convex,

" while

while the other grows flatter; —— and fuch "Alteration is supposed to be made by certain " muscular Fibres within the Substance of the " Crystalline: But this Sentiment, (continues Dr. " Jurin) has not been fo fully explain'd, by the " learn'd Author, as we could wish." I thought, indeed, to have taken some further notice of the Invalidity of this Opinion also: But upon a second time accidentally looking into Dr. Porterfield's Discourse*, which at first reading, probably, I had not so much attended to; I there, however, found, on this fecond Perusal, that the said ingenious Dr. Porterfield had very fully answered that Opinion, tho' he, at the fame Time, mentions not the Author or Authors thereof; yet whether Dr. Pemberton supposes the Body of the Crystalline to be adherent to its Capsula or Tunica Aranea, (as asferted by fome) is what we (as well as, probably, Dr. Porterfield also) are unacquainted with; and if so, How and in what manner be proves such Adberence? All which would feem necessary to be known, to answer that Opinion most properly. Nay, it is even affirm'd, that Dr. Jurin likewise supposes such Adherence of this Body to its Capsula; yet by his flowing of the Water therein forward and backward, one would imagine, he could not well suppose any great Adbesion; or if any, he ought, indeed, plainly to have told us so, the better to comprehend bim. However, be these Opinions as they will, in this respect, they must, I fay, from the foresaid Observation of Catarasts, confequently vanish.

N.B.

* In the Medical Essays.

142 Some Thoughts on Dr. Jurin's

N.B. Upon Information that there had some Enquiry been made of that ingenious and accurate Anatomist Dr. Nicols, concerning the foresaid Coronet of the Uvea, Whether muscular, &c? He acquainted me that he had not had Time to fatisfy that Question; but that he imagin'd he had found out a new Muscle in the Eye of an Ox, under the Tunica Conjunctiva, adherent to the Edges of the Sclerotica and Cornea, which he invited me to fee: and which I accordingly did, dried, tho' I have not yet properly examin'd it in the more natural State, without drying; it, however, appears to be much of the muscular Kind; and this would feem much better to have answered the foresaid Scheme of Dr. Jurin, and thus have ferv'd to amuse Mankind a little more, tho', I think, not to any great purpose. Whilst then we were conversing on the Subject of this Organ, I acquainted Dr. Nicols with the * Conduits or Aqueducts I sup. posed in the Ligamentum Ciliare; upon which he inform'd me that this was the Opinion of +Hovius; 20 which I replied, that I had not read or confulted him on that Subject; and that it was my own proper Conjecture. Well, faid he, but the World will with difficulty credit this, supposing that you either have, or ought to have read him; for which reason, said he, it will be proper to say fomething to the Publick on that Head. Sheets being then, as I told him, already cast off, and the Press calling upon me to be expeditious, I shall then only at present say, that as to the Charge of not reading him, I very freely own, that when he first appear'd, I suspected strongly, that there was little or nothing in him but what was borrow'd from others, as Ruysh, &c. under whom

[•] In Dr. Porterfield's Discourse.

⁺ Tractatus decirculari humorum Motu in Oculis

whom, I judge, he studied, as I had done pretty near the same time: and on turning his Book flightly over at the Bookseller's, it confirm'd me still more in my Opinion and Indifference as to more strictly perusing it, as well as that the Cuts appear'd not much promifing; especially in the human Way, being only from Brutes or from Ruylb: or what could be supposed any way new in him. feem'd rather Imagination than Demonstration; or indeed to be truly discover'd. Add to this, that I was at that time diverting my felf with other Amusements, unless something had offered seemingly more inviting than this appeared to me to be. It may even, perhaps, seem incredible to some, I should not have look'd into Mr. Chefelden's second or later Editions, printed much longer time. Add to this, so far as I have now writ, I might judge I had no great occasion to examine many Books, as indeed I have not. In a word, I have fince look'd a little more into Hovius, and do find no great Satisfaction in him. Heister in his parricular Criticisin publish'd on him, seems justly to accuse him of having taken most of what is worth notice in him, from Ruylo, Nuckius, &c. And I doubt that what may be protended to be bis own, will rather be found to be Imagination than Demonstration. The Certainty of the Nature of the minutest Vessels, Fibres, or Ramifications, &c. discovered by the use of a Microscope, is not, I doubt, much to be depended on. But at best, at most, or at worst, What can be faid? But that I have only supposed or imagined a Thing, which he pretends to have proved, to wit, aqueous Canals in the Ligamentum Ciliare; if so, it only more certainly confirms the principal Opinion I advance, which, whether good or bad, none, I think can pretend to have faid before me, that is, as to the Nature of Cataracts; and to which the former is only fubfervient. Now, from what I had faid many years
before him, of the Sinus of Rau, which he alters
in the Name, as he does many, or most of the Parts
he takes from Ruysh, Nuckius, &c. as remark'd by
Heister, I having, I say, taken notice of that, as
well as several other things in my said former Treatise, there was, I think, sufficient for me, without
any such help, to have made this Conjecture;
which in the mean time, I only advance, as a Conjecture, as to which I am not now a bit better satisfy'd with his intended Demonstrations, than I was
before I examin'd him.

The same Gentleman facetiously ask'd, and very justly observ'd to me, "What, says be, do you write Books for? Since, continues be, they are either good, or they are bad; if the latter, you only give your Enemies a greater Opportunity of tearing you to pieces; and if the former, you " do but create thereby a greater number of fresh Enemies; nay, the better it is, the more Ene-" mies you consequently make; that you make ten Enemies to one Friend; and that one Enemy injures you more than ten Friends do you " good." So even the greatest Virtue it self is ever the most liable to this. These, I am very senfible, are but too certain Truths to be denied. Mankind, in general, being much too apt, narrowly, interestedly or maliciously to imagine, that what Credit they allow to their Neighbour (if not interested in him) is a fubstracting, or a taking away so much Reputation from themselves. Thus, if there be any Exception from this so general and but too certain Maxim, it will be in extremely few Cases; where the Generality are bigbly diverted, or fomehow believe themselves to be interested therein. But in Cases where an Author seems any way to be attempting the opposing of Error, there, I believe, it will

will be found unquestionably true, that he will be loaded with a double Portion of this unvariable Rule. And now, this being the true State of the Case; and that I must as undoubtedly be ranged with these last mentioned, it may readily enough be imagin'd, I should have consider'd this; or at least, offer some Reason for my going on herewith. I can only now say then, that such Advice indeed was plainly given me too late; since most of this Book was already printed off, and consequently not to be recalled; being already in the Hands of the Bookseller. What shall, or can I then further offer in my own Behalf, unless it be this of the sirft great Rule and Law of Nature, to wit, that of se defendendo.

P. S. The most shrewd Money-getting Practitioners readily laugh at, and warily pretend to avoid the Writing of Books, in their own Way especially; and so affect to ridicule and despise the writing of them in general; particularly of fome of those of the Profession, upon the Spot with them. I cannot but agree that fuch Practitioners. no doubt, reason the most securely as to themfelves; fince, as some most justly observe, there's much more got by the writing of Bills, than by the writing of Books. Nevertheless, howsoever well these learned Gentlemen may reason as to their own Particulars; yet it is, no doubt, e'en full as certainly true, that they are not like ever to instruct, inform or improve Mankind much in this Way neither seems it indeed to be the least of their Thought, or Care. And as to the prefent Benefit the World reaps from them, this must be left to them and their Friends to make the proper Cal= culations of that; so to render Mankind sufficiently

1140 Some Thoughts on Dr. Jurin's Essay.

ciently sensible thereof. The real Knowledge of Practitioners is best, or almost only to be known, in difficult, intricate, or complicated Cases, principally to be discovered by those of superiour Knowledge in the Profession, when concern'd with them in Practice: And now I cannot omit adding, that had Ratcliff himself been capable and willing, to have lest some useful, improving Instructions in Writing, in this way, for Mankind to have sollow'd, for their surther Relief and Preservation, he would thus, I say, have done insinitely more Service to the World, than by any Uses he put all bis Fortune to, which he lest behind him.

In fine, I cannot also omit observing, if my Reader imagines, (in this way) any more than in many others, that the Knack of attaining to a great Fortune (promoted by Friends or otherwise) and that of attaining to Knowledge, are inseparable, and in effect the same Talents, he may possibly, sooner or later, find himself mistaken. Neither seems it necessary to say much, concerning the Advancements made in this Profession, by such who have made the largest Fortunes therein.

And now I am thoroughly satisfied, that some of my Readers will be ready enough to obferve, my being over-apt to speak too many bold Truths; I shall only then add, that I could have said many more, no way inseriour to these; and that he who inclines not, or dares not to speak any, may safely put all the good he is like to do in this World, into his own Pocket.

CON



CONCERNING

Mr. SHARP's Book

ON THE

Operations of Surgery,

Containing some

Explanatory Notes thereon, &c.

Imagin'd it to have been hardly necessary, to take any notice of this junior Practitioner Mr. Sharp; more especially since he seems to be greatly in his Master Cheselden's way of Thinking, asferting much to the like purpose; and that he owes (as he observes) all his Knowledge to him the Ornament of the Profession. Now, conjecturing I might already have faid enough of the Master, I concluded that might have been sufficient; but as this young Practitioner feems inclinable (as I understand) that I should take some notice of him, by his Enquiry, Why I do not mention him likewise, who has writ so lately, &c? I am thus now even inclinable to take some little Cognizance of him also, by the few following Hints, as a Specimen, if further should be worth our or the pub-L 2 lick

lick Regard. I know not whether he has fo far learn'd from his Master, as that Gentleman says, ke would as willingly that any one writ of bim (or contrary to bis Sentiments) as not. I freely own, I in the mean time suspect, our present Author may judge that my mentioning him may possibly be of some use, by making him so much the more heard of which is a principal Affair; thus rendering him fome how confiderable, by placing him with fo much good Company, even with his own Master, &c. together with my Explanatory Notes or Hints of his Work: For to have taken no Notice of him, might probably have appear'd, or been construed, as an Inclination to the sinking bim, as Authors often do, when they incline not such an Author in particular should be heard of. Now, whether he may naturally not prove over-weighty, so as able to swim of bimself, is, what I will not absolutely pretend to determine; yet, be that as it will. I have refolved (according to his feeming Inclination) to affift him with the Benefit of a few of my Plumes, or Feathers, more certainly to help and contribute to his more effectual swimming; and thus to coast it along, so to render him more univerfally known and seen; the great and advantageous Article in this World.

Some, indeed, are of Opinion we should not trouble our selves to correct Juniors; or if we do, to use them very gently, according to their years; since it would be cruel, say they, to handle them over-roughly, with the sinewy Paws of Experience and mature Knowledge, I would therefore, rather choose to methodize him in a paternal way; and to use the Rod more sparingly, with a parental Affection towards him; because it is still to be hoped he may mend, and acknowledge his Errors, &c. Since there seems, as yet, to be some

Book of the Operations of Surgery. 149

fome Hopes in his Face, he not appearing to be quite of the abandon'd kind. A little friendly Correction may therefore possibly be as yet of use to bim, and do him good, by somewhat bumbling too great a Share of Vanity, should that be the Case. Nay, if such will over-forwardly enter the Lists, with those of Experience and Years, without the least Ceremony or Caution, they must (from fuch) expett their Play. Yet it is well if this young Hero do not appear as a Champion for Men more in Years, perhaps, even besides his Master; for which last I do not so much blame him. probably appear hard to call in question his being the sole Author of that notable Treatise; and yet it would, methinks, feem no less bard or unreasonable, to suppose one of his Years and Experience, to be so very rash, forward or indiscreet, as to publish a whole Body or Work of this Kind (to teach and instruct all his Fraternity) without, at least, consulting bis Master thereon (the Ornament) which I think there can be no reason to doubt of, from the Acceptance of the Dedication, as well as that of their very good Understanding, his Master, asking me also if I had seen it on its Publication, &c. So that it feems beyond doubt, to have been look'd over, and approved by him in particular, if not the very original Design taken from him, fince this Author allows he owes all to bim, &c. Neither appears it to be altogether improbable that some other of the Scioli of his Acquaintance, whether of Hofpital or -, might indulgently incline to encourage his Years, and thus bumanely to glance their learned and knowing Eyes over it. This feems, indeed, to be in some Measure confirm'd by the excellent Character and Recommendation they give thereof, fince its Appearance in publick. Thus it may not possibly be a L 3 very

very unreasonable Query, whether it may not, perhaps, be attacking a whole Posse of Old Soldiers, in ambuscade, in attempting to fay any Thing of this junior Author; and were we to suppose these Matters to be otherwise, it might, perhaps, look too like a calling of his common Sense too much in question, in not having consulted proper Persons, no more than Books, on such Occasion; yet be that as it will, we intend to present the Reader with a small Specimen bereof: And tho' the Subject of the Eye be most proper for the Discourses before mentioned, yet we will fay a Word or two further here. In fine, on some principal Parts of that Work, feemingly very necessary for a junior Surgeon's Belief; for which Reason we have judged it most requisite to throw it into

The junior Surgeon's Tenets or Belief,

BEING

A Foundation for improving the Second or Third Edition of Orthodox Operations in Surgery.

Imprimis, I do fincerely and verily believe that my Master, who makes Interest for me, and thereby gets me into an Hospital, is an "Ornament" to the ""Profession;" and that the rest of the World will be of the same Opinion.

2dly, I do likewise believe and affirm, (as in our Preface) "That the Methods of operating in Sur-

*N.B. The Words or Sentences betwixt inverted Comma's, 'a' are the same as in our Author. Those in *Italick* are more properly the Purport or Sense of our Author, than his strict Words. The Roman Character is most properly our Explanatory Notes on the whole.

" gery, have of late Years been exceedingly improved in England, and that there is no Treatise on that "Subject written in our Language;" and that "Fo" reigners lie under great Disadvantage, from their Ignorance of these Improvements;" they being also, in "their manner of describing an Operation, so "very minute, and in general so little pleasing;" that we judge it no way necessary to except any one of them, whether ancient or modern.

3dly, We do also believe, that tho' Frere Jaque by "Certificate of his Success at Versailles, where "he cut thirty eight, without losing one;" yet that all this is not so extraordinary and improving, or so good a Method as our's: tho' we never pretended to have cut above thirty without any one dying; and we are of Opinion, that we, and our Master, have succeeded equally in much about the same Number; being agreed not to cavil about one or two, more or less: And thus it is we believe and prove Foreigners to learn of us, not we of them ".

4tbly, Introduct. page 3. I do likewise believe, "that a Fungus, or proud Flesh, frequently esteemed "an Evil," tho, "in Truth," we consider it a necessary "constant Attendant to the healing of "Wounds." And that dry Lint, or other dressing, seem not necessary, or to be varied as occasion may require: Nor that Wounds in a good Habit of Body will heal without Lint, or any thing else. 6. We do surther believe, "that no first dressing after Accident or Operation should be applied in less L4 "than

^{*} And as we have observed, that the Surgeons of the Hospitals in Paris were probably unwilling to learn of one not regularly bred to the Profession; so, for the like Reason, why should we allow that we learn of a Foreigner or any else? Or, Why should not we have as great Capacity, (to reason in such manner) even, at least, as much as any Foreigners whatsoever?

than three Days;" without the least Regard to great Plenitude, Constitution, Place, Climate or Season. 10. And that "Oil and Vinegar" are best for all Inflammations as a Discutient, excepting to the Face only warm Milk. 11. And we do further believe, that when "Suppuration bas not kindly advanced; "Bleeding bas sometimes quickned exceedingly," which Nature would not have done fo foon without 14. As also, That "Theriac outwardly applied, " and Cordials inwardly," is the belt for the "Cure of Gangrene. 25. And that "Injection" being of no ule "in Abscess," so consequently it is of no Use In Gonorhœa. And we do likewise affirm, that the Virtues of Medicines cannot more enter the Pores. Sinus's, cut, or open Vessels, when warm, and so more Ligaid, than when thick and cold, yet in Winter we allow a little warming, possibly only for the sake of the Doffils lying more close to each other.

26. We do also believe, that " Basilicon" at all Times, and in all Parts of the Body, even in Legs and Feet, is the best Defensative over the dressing instead of Plaisters, as being better to keep on the Dresfing, as well as the Skin Soft, since they rather cause Inflammation; and as to Ointments in Wounds or Abscesses (it is to be observed) that they are only to be used when there is occasion, as others always did before us. 27. And we do further sincerely and truly believe Air has not that ill Effett on Sores, and that the open Air in the Country, and that of a Prison or an Hospital, tho' e'er so bad a Situation, as well as a Multitude of Patients, with malignant Maladies, in a great and populous City, is all the same; and that pestilential Air, Sinks, or Damps of Wells, Coal-pits or Mines, &c. fo commonly remark'd, and faid to have kill'd many People, is all false, and a meer vulgar Error; and we do affert that all fuch Air is much the same,

and

and equally harmless, or is altogether as healthful as the free, open, clear, serene Country Air is on Cattle, to wir, that of a hail, rugged, and (altogether well accustom'd) unpamper'd Constitution *. 32. That Basilicon (as has been said) is equally good to Feet and Legs, as it is to other Parts; and that on necessary occasions we are only discretionally " to use Turpentine" Aq. Calcis, Aq. Phagedænica, Tinet. Myrrbæ. Alum. Uft. Vitriol. Lun. Caustic. Lap. infærnal. red Præcipitat. &c. mix'd or dry, more or less to be used, as others have always 36. In cancerous Ulcers as Surgeons likewise bave experienced or discovered, who shall be nameless, being according to our approved Method of disliking and carefully avoiding to name Names, or to feem to be obliged to, or borrow, or steal from any one; it being our much approved Method of Writing, as if all our own, and that we learn from no body, butour own Ornament, who furely never learn'd of any one. And thus we observe, (in such Case) that the less tampering is the best, and so we would use dry Lint; vet we find it sometimes beneficial to tamper a little as yet, with our dear Basilicon, &c. but a Word to the Wife is sufficient, " and the best way " therefore is to be guided by the Patient what Me-" dicines to continue.+" 38. Neither do we imagine that we can heal Ulcers too foon, by " lying "much a-bed;" and possibly thus penning up too much, or too foon, a Superfluity of Humours, which may confequently load, deftroy or oppress

And so far my Reader must surely allow, that such Observations must be of great use to Foreigners, when they come to know them.

[†] As to the Schirrous and Cancerous Cases, wide what has been said on that Head, in the end of the Discourse on Mr. Chefelden.

some other more noble Part. 43. So, by way of Prevention, in Inflammations, or Mortifications " bleed and clyster," as others both Foreign and English (without further notice) have done before us. 47. And for "carious Bones," we do believe that the best thing is "dry Lint" or Dosfils dipt in Tincture of Myrrh, as all others, whether Foreigners, or Countrymen, have still used before us. 48. We likewise "in Burns" do believe, our precious "Bafilicon" to be greatly "useful" and that Mel Saponis or Honey with Soap, is not advisable, or at all to be used. Page 10. On "Gastroraphy" where the Omentum protrudes, to cut off so much as shall be mortified before you replace it, as all others who have pretended to any Knowledge in Surgery, (whether Foreigners or Countrymen) have ever practifed, from the Beginning of the World to this present time. 18. So in "Bubonocele," or Rupture, plentiful Bleeding and Clysters repeated, one after another three or four times, being a Practice just found out by us, or some other Practitioners time out of mind before us, whose Names we have forgot *. 19. As well as our Method of Poultifing in such Cases. 22. Now, as to " leaving some Part of a gangren d Omentum," particularly without any Ligature, to interrupt or hinder the Communication to the found Parts next thereto, we do verily believe it to be far " the best " Method;" and that the rest of the Operation ought to be perform'd, as others have done + before

^{*} And thus you cannot but see, we teach all both at home and abroad, what they were greatly unacquainted with before.

† N.B. Being urged (as has been observed) from the Press, ta have done, I had not Time to go on with these Notes methodically (had that otherwise been necessary) and so have taken the Liberty of touching only, on some particular Parts.

us. 70. So likewise to cut for the "Fistula in " Ano," as others have hitherto generally done; as well as that we, as they, occasionally judge proper, " to use the Spunge-Tent where the Orifices are " too small." We believe the "Knife and Scissars " the most bandy Instruments, almost all others that " bave been invented to facilitate the Work, are not " only difficult to manage, but more painful to the " Patient." And we do at the same time verily and fincerely believe, that an Instrument may be found to be of fingular Use and Repute with the fenior Surgeon of St. Bartholomew's Hospital, and of very great Effect for the cutting of incompleat Fistula's there; and yet be entirely useless at Guy's, St. Thomas's, and Chelsea Hospitals, or even possibly with the junior Surgeons of St. Bartholomew's, or with any body else. 93. I do also affirm and believe, that in relation to our Method of cutting for the Stone; that all Accounts of this Operation which are more full, or particular, than that given by us, is quite idle and useless; and that the Account given by Dr. Douglas, tho' more full, is minute, tedious and tiresome, being overparticular, &c. And tho' fome, 'tis true, who really incline, or intend to perform this Operation, may not be fo apt to judge a Description too full, and over-minute and particular, when still consistent with Truth; yet, to such who already can, or that know how to perform it, or those who want and defire only to have ageneral Notion thereof, so as to be able to chat, or talk a little on fuch Subject, our Account then, must furely be fufficient. And we do, in our Conscience, still further, truly, fincerely and faithfully believe, that we cannot miss most certainly cutting the Parts we particularly mention, and none else; since neither the different Pressure (from the holding of

the Staff) nor that externally on the Skin or Integuments by the Fingers, can make any Variation, no more than the absolute Certainty always of the Hand which Cuts; nor can there be any fuch thing, as the more or less sliding or slanting of the Knife, with us: Neither does the Thickness, or Fatness of the Parts of some, so as to be less six'd or uncertain, fignify any thing as to that, no more than the Lusus Natura, or the particular Wantonness of Nature in the placing of her Parts either higher or lower in Situation, or Infertion; whether they be Muscles, Ligaments or Vessels. All these, we fay, and do firmly believe, can make no manner of Difference, as to our Certainty of always cutting the very fame Parts, we so particularly have defcribed, and none else: Nor that even all the Strugglings or excessive Strainings, Shifting, Heaving, which any Patient can be supposed to make, can fignify any thing as to that. And now, as for the Operations of fearching, the leffer and greater Apparatus, the High Operation, as well as that of the extracting the Stone from Women, we do believe it the best Way to have followed, borrowed or stole; and so to have given the World much the same Account from others, as they have much more fully done before us, without hardly thinking them worth the naming, but rather chuse to give such Accounts as our own *.

157. "In describing the Nature of Catarast; it bas bitherto been a positive Maxim laid down by Coulists of every Nation, that there is one certain Stage of the Distemper, in which only the Operation is proper, and this State of the Disease is

^{*} And consequently the Discovery of all this, must be of singular Use to Foreigners.

king, and more in the Books of this Disease, most ee of which are Names that puzzle the Memory,

without informing the Understanding; and indeed

" bave no Foundation in nature."

160. Thus "the white are supposed Milky," (not from their breaking also, as a Curd;) "the green and yellow horny," as the best or pearl-coloured likewise are, when very old. And tho' the " black Cataract" has been described very particularly by most Authors, yet I dare fay, and do solemnly declare, that they have been most grossy mistaken therein; since in a "Gutta Serena, where " no Disease appearing, (that we know) the Pupil " feems black, as in a natural State;" as most justly and exactly observed by us at Guy's, &c. and that there is no Shrinking, or preter-natural Contraction of the Iris, with great Clearness of the Crystalline, as afferted by Foreign, as well as Domestick Authors; and therefore that " Gutta Se-" rena," in plain English a Serene Drop, must be black; and confequently that "Glaucoma, Gutta " Serena, and black Cataract," are all the same thing. And whatever Foreign Author there may be, (tho' of the very best Credit) who afferts, that he has even beyond his Expectation, couch'd the black Cataratt with Success, we do believe it to be utterly false, and that the Truth is not in him.— 162. And thus "the Operation of the Milky Ca-" taract is falsly said never to succeed;" for faying which we also declare, that the Truth is not in them; nor matters it who it was faid fo, fince it was they, that faid fo. " Of this (kind then) there are two forts;" and thus tho' we have "dif-" carded the Distinction, the frivolous Sub-division, " fuch as the Milky, &c." yet we think and believe it altogether proper to "fubdivide" even that fort or any other, as occasion serves us. 164. And

we further believe, that "we cannot well do without the Speculum Oculi " in couching; because others of Repute never use it. We verily believe also, that in the next Edition of our Operations, we shall in the same manner as in "Cataracts," reduce all Hernia's or Ruptures, of whatsoever kind, to one Sort only. 165. And now, as to the cutting of the Iris, there are two Cases where this " Operation may be of some Service; one, when the " Cataract is from its Adhesion immoveable. - This " I have spoke of in the preceding Chapter, and con-" sider it as a Species of Blindness not to be reliev'd: "But Mr. Cheselden bas invented a Method of " making an artificial Pupil, by slitting the Iris, " which may relieve." 161. "The Operation can " bardly be advised, though I once did it with Succe cess on a Person who had been blind thirty Years." And tho' these excellent Sententious Remarks of ours, may appear a little like cross-purposing, or fome-how contradictory to one another; yet we do fincerely and verily believe them to be very true, and exactly consistent with each other. 166. Nay, we do even believe, and allow the "Speculum Oculi," to be as " absolutely necessary bere," as the Speculum Ani may be in all fuch like Cafes, for facilitating the Entry of the Pipe, &c. 161. "This Operation, by what I have seen, bas answe-" red best in Adhesion of the Crystalline, tho', to speak " truly, very seldom even there." I once "perform'd it with tolerable Success; and a few Months after the Orifice contracted and brought " on Blindness again. " And thus we do truly believe, that all this fo very ingeniously and well put together, no Man can find any difficulty in, or in the least any way doubt of. 163. We do alfo

This seems somewhat to confirm what I before hinted on this Subject, in the Discourse of Mr. Cheselden.

also affirm and believe, "that the Ancients" gave the Name of "Uvea to the Choroides," not because its dark Colour is like that of a full ripe dark Grape, but rather from the impersect, unripe, green Grape; because somewhat of the greenish Colour has been observed in some Part of this Membrane in some Brutes *.

And I do further believe, that all the Operations on the Eyes, which are fo very numerous in most Authors on that Subject, are all most judiciously to be reduced and comprehended under the three Operations already published by us; the principal of which three, the World is so highly and most particularly obliged and indebted for to our never sufficiently to be prais'd Master, that fingular Improver and great Ornament of the Profession, and thus in reducing all to these three, we cannot believe it in the least necessary to speak of or to publish any more Operations on the Eye; nor of any more Instruments, than those we have mention'd and approv'd of: Neither do we think or believe, that Oculifts or Operators for the Eyes, should be at liberty to make Use or Choice of any other kind of Needles, than that we approve of, or that of our most admirable + Knife, so judiciously invented by the Ornament of the Profession: Nor do we believe or think that any

* And thus the Reader cannot but agree that Foreigners will be vastly improved on the Discovery of all this Heap of Knowledge to them.

† And tho' some maliciously insinuate, that this well-contriv'd Knise will certainly wound and cut (unnecessarily) the Humours, as well as Tunicks, much more than any Needle; and on the using it in the operating to make the Pupil, even cut the Orisice where it enters, still more than at first; thus letting out a greater Quantity of the aqueous Humour, &c. yet 'tis enough that 'tis our Master's new Invention, and therefore the best, being a very notable Improvement, as well as the Operation, as we have most clearly demonstrated.

Senior, or other Surgeon, ought so much as to see, far less to make choice of any other kind of Instrument, than those already mention'd and approvid by us; fince there can not any Variation be allow'd, as where an Instrument may justly be preferr'd to another; whether from the Use, Minuteness, or Largeness of Parts; or as the Judgment of the most experienced Surgeon would pretend to.

Neither can we believe that mentioning the manner of performing that excellent Operation of the Drum of the Ear, originally and folely invented by that great Improver of Surgery, our own so celebrated Master, can be any way here necessary to be related, fince already so very well known to the learned World, both for its Ornament and fingular use.

And as to the great Usage of dry Lint, so very much recommended by us in fresh Wounds, and on which we value our felves so highly, we cannot by any means believe or allow, that Garengeot, or any other, ever used or recommended it before

us*.

Neither do we believe that any thing material to be borrowed from any ancient Authors, and nothing at all from the Moderns; and for we cannot

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And thus we extremely admire Simplicity and Plainness in Practice, which is furely highly commendable; nor do we ever over-do it, even when we advite only cold Water in a violent Bruise of the Leg, tho' attended with a Rheumatic Humour, &c. and if it miss, it may some time or other hit, without the use of other Evacuations, &c. Thus the rendering of Practice easy, is mighty praise-worthy. Are we not well inform'd of one of notable Title, who makes no Ceremony to affirm to his Patient, that in Inflammations or Piles, the use of all Ointments are alike? that is, that one is as good as t'other; tho' upon Tryal of some good Woman's Ointment such ailing Person has experimentally found the Opinion not infallible.

not consider Ambr. Paré, Aquapendent, and Hildanus, but as very tedious, tiresome, troublesome Fellows, not in the least worth our Notice; nor any Knowledge or Instruments that can be pretended to be pick'd from them, any more than from Scultetus, Girault, or Guillemau, or from any Authors, on the Eyes in particular, no more than from the Edinb. Med. Essays, &c. And even were there any thing to be found in any of them, we cannot be of Opinion, that we ought so much as to have it in the least thought or surmiz'd, that we ever borrow, steal or learn from any one; far less, to be so very mean as to name any such, we may privately have been oblig'd to.

And we do therefore, verily and fincerely believe, that the wife Maxim, so justly approved of by those before us, in relation to the utter finking of Authors, by not mentioning them (as wife Gamesters do their Money in a bye Pocket, when they incline to hide their Gains) is truly and fincerely the most laudable, and highly commendable Method for any Author, who would pretend to thrive in the World. And thus accordingly to filch or steal from all or any one, and an the same time to name none, unless to slight or find fault, even with the very best of Writers; and thus, I fay, most fagaciously to retail all as our own, not allowing that we owe the least Obligation to any, unless to that fingular Improver of our Art, whom we so fortunately served our Time to. And as we believe and know, that no Englishman ever writ Operations before us; we do at the fame time aver, believe and affirm, that P. given as an Instance, was actually and bona fide a Scotchman, as he stiles himself, and confequently was no Englishman; tho' it is true indeed, Scotch as he was, he writ Surgery and Operations, with the manner of performing them, as well well as to give the Cuts of 'em, together with the Instruments, &c. yet now, whether on account of the Language, or otherwise, is by all knowing Booksellers thrown by amongst their Waste-paper; and consequently must be notoriously false; which is so maliciously infinuated by our Enemies, that it is a far better Book than our own, so very fresh, spack and span-new, just now published by us in a fresh and sashionable Stile and Language; for the want of which, with the great Knowledge and Improvements contain'd therein, all Foreigners have hitherto been at so very great a Loss.

We do likewise believe, for the further Instruction of Mankind, whether Foreign or Domestick, that Proposals for the printing of new Operations, by a junior Student in Surgery of 15, with the proper Affistance of a School-master, Bookseller, an Instrument-maker, and an Engraver; will be of great use, a very excellent and most valuable Piece, far preferable to any hitherto published. It is indeed to be collected, or (under the Rose) to be privately borrow'd from Charriere, Garengeot, or Le Clerc; some one more particularly, or from all of them together; tho' at the same time to have the Words and Substance so very carefully, and most artfully transposed from these tedious, tiresome, insipid Foreigners; and to be so beautifully transplanted into our own Phraseology and Language; indeed so excellently translated, transmography'd and blended the one with the other, by the great Skill, Art and Learning of our School-master and junior Surgeon, as that no Mortal shall be able to discover but that it is an entirely English Production, without the least Obligation to any Foreigner, or any body else whatsoever; which shall at the same M 2 time

time be to very curiously embellished with Copper-plates, of the Instruments; such as the Graver and Instrument-maker shall judge most proper, as well as in like manner approved by our junior Surgeon and Bookseller; so that there will hardly be a Youngster in Town or Country, who will not hugely crave, and highly wish to have it; nay, that the bufy unthinking world in general, will be greatly fond thereof, and consequently must turn to a very extraordinary Account.

And I do further and fincerely believe, that the best Method of disposing of our Books, is at * a Coffee-house, much frequented by our Props or Pillars, Friends, and the Ornament of the Profession, by reason of the many comfortable, gentle, puffifick and sciolifick refreshing Gales, which are continually blown from every Corner and Point of the Compass there, so very advantageously directed to carry them on their prosperous Voyage all around our Nation.

And we likewise affert and most firmly believe, that a Treatise on the Operations of Surgery, as ours is term'd, does not infer all the Operations; neither need we to have faid, some or part of the Operations; fince we our felves very well know what we mean, or that we would be at. can we be of Opinion it could be any way necesfary, to have put into a Treatise on the Operations of Surgery, Phlebotomy, or Arteriotomy, Application of Leeches, or that of Cupping, Issues, or Setons, Tongue-tying and Cutting of the Gums in Children; as well as that of the Operations for the Teeth; that of the Nails growing inwards. The extracting of Bones, or other extraneous **Bodies**

^{*} Vid. Letter to the Booksellers, page 20, of the Reasonableness of Costee-men, &c. dealing in Books.

Bodies out of the Œsophagus, or from other parts of the Body, as Bullets, &c. The Operations of the Eyes in general, too many for us to trouble our felves to enumerate; nor to mention the Cæsarian Operation, the Procidentia Uteri, and Ani, no more than the Extirpation of Fingers and * Toes, which we cannot believe any way necessary to be mention'd, as a distinct Operation, with the proper Cuts of the Instruments, &c. and still less, Ficus or Sicolis, Warts, &c. The extracting of Bodies natural or unnatural out of the Womb. The Operations and Doctrine of Fractures and Dislocations, more proper to be treated of by Bone-setters; nor that of ingrafting of the Small-Pox, tho' fo much of late practifed by Surgeons, more especially fince not invented by us, nor mentioned by any Briton, until one Kennedy a Scotchman, (next a-kin to a Foreigner,) did publish the Account thereof, in his Essay on external Remedies. Neither do we apprehend it to have been any way near fo necessary, to have taken Notice of the most proper manner of treating venereal Buboes, with their indurated Lips and Glandules; or even that of Shankers, &c. as it is that of the Phymosis, and Paraghymosis: And as to any further Improvements in venereal Maladies, there are, 'tis true, Quacks, both abroad and at home, who pretend to some speedier, or easier Methods; particularly in some Cases of Pox or Gonorrhæa, &c. tho' we have not judged proper in our own Hospital, no more than in that of our Master before us, or any other in Hospitals, upon any occasion, to make the least Alteration whatsoever, from the common Method in Practice this 40 Years, for the Cure hereof, because we would most judici-

^{*} Neither can we imagine, that the faving of most for half the Bone or Joint of a Finger, &c. can any way, ever ferve, either for Ornament, or Ufe. oully

166. Explanatory Notes on Mr. SHARP, &c.

outly avoid the fcandalous and ignominious Name

of being called Quacks.

And thus the whole World, particularly the extremely Learned, cannot but very clearly observe, the most extraordinary Improvements we, and our so justly celebrated Ornament, our Master, have made (in this Profession) and for which we cannot believe nor doubt, but that both Foreigners as well as Countrymen will be very ready to make us their most sincere and thankful Acknowledgments for these our great and so very singular Performances.



ERRATA.

For Row read Rau. Page 32. line 5. for his r. this. P. 42.

1. 16. for Sphærical r. Spellacle. p. 58. after Elongement r. of the Humours.

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